Title word cross-reference

3 [CC18, DA20a, DA20b, NF20, SLW10].  th [ES24].  n [BHWM20].  Q [Gao20].

-D [SLW10].  -Sorting [Gao20].  -th [BHWM20].

1 [SYOL07].  11th [ES09, FT05].  11th-graders [ES09].  12
[LFM*19, MHIS09, OBH17, VHM22].  15 [LGS18a, LGS18b].  15-year-old
[MR14].  15/16 [DAM19].  15/16-Year-Old [DAM19].  16-Year-Old
[DAM19].  19 [CMM23, DF22, FLP23, KGM24].

21st [CYLL23, SD22].  21st-Century [CYLL23, SD22].  280 [VT07a].
3- [PEK+23]. 3-Year [HNMG16, BW10].

4 [HL07]. 415 [HL07].

5 [MF05, VT07a, YKJ20]. 522 [SYOL07]. 5e [GDSD10, JH24]. 5th [Saf18, YnLL08]. 5th-Graders [Saf18].

6 [SWA+12].

7-Year-Old [PEK+23]. 7th [CA21, DE15].

8 [CGTQ21]. 8th [JLCT12, NCH11].


LLN^+21, MB21, MF05, PEK^+23, RVTV20, RMR22, SBN16, So03, SK17, VWH^+17, WwLD^+15, Bra12, BVDV13, Can14, Che11, Chi12b, Fer14, HPP09, HY05, LCC11b, SBN14, BML24, PPB18, PEK^+23. **Chile** [THV^+15, TLHV16a, TLHV16b]. **Chinese** [BVDV13, CW06, CJ17, CL10, CVCCV11, Che11, Din18, Gao20, GHL22, HZL22, HFWY14, JC10, JML21, JW15, KL18a, Len06, LZL^+18, LP11, LH16, MLK^+15, NLHS08, Ng10, RXLC16, XC21, YKB21, ZBL^+16, ZYJ22, ZS11, ZZV18, ZTW23]. **Choice** [BB17, Gus24, HMM22, JCC20, Ng20, PD17, Sas19, Sas21, BS15, LLWS13, Web13]. **Choosing** [DAM19, KN22]. **Christian** [BdSSC16]. **circle** [Aky16]. **Circuits** [CK06, Lin16a, KTBG15, SY14]. **Circulatory** [Wan04]. **Citation** [TWC^+16]. **CiteSpace** [TYW^+17]. **Citizen** [ALI23, Str20]. **Citizens** [KKL20]. **Citizenship** [Alg20, MSS22]. **CK** [OBF15]. **Claims** [CH20, AV06]. **Class** [BML24, CH20, El 21, EP21, Gus24, MSdSGG17, OE19, vKF22, CMME15, KYJS12, LLL15, MMZ09, SVME15, WT15]. **Classes** [BCC06, SCB16, SJB20, AE15, EE11, ETG16, EK09, GGSP10, MODBB12, SOTF13]. **Classification** [FMOMG16, YYC04]. **Classroom** [And03, ANLL21, BE16, Bla04, CK22, CBR21, CO22, DS18, DIRTPB24, DA20a, DA20b, DKL16, EHM19, El 22, EH18, Fre21, Fre24, GHS^+18, Gus24, HK21, IK18, JLL20, KLR23, KHN20, Kim22, LTT^+19, Leu05, Leu19, MHIS09, MSAGHMG19, MBBR08, MF05, NLHS08, OS10, PP15, PDUA21, PCL18, RTM^+20, SLV22, Sch14, Shi18, SF05, SGHM15, SGHM16, TM17, TA15, VJ06, WQNC17, Xu22, YS19b, ZBH3, AV06, Ale14, CK14, CL10, CYK^+16, Fos15, GLY09, HL13, KTBG15, Lee11, Oh11, PDG15, Pap10, Pet13, QM14, RB13, SIS^+11]. **Classrooms** [El23, Fan21, FHmL18, Fun21, FL23, HNMG16, HNAA16, HKS18, HHS24, KBB^+22, Kim22, KFM^+17, LFF03, MDT13, NvKR^+18, NKR^+18, NPT17, OS05, QHS^+20, RL19, SB21, Sea16, SGHM15, SGHM16, SMZ06, WHH08, AAF12, AH11, CCM^+12, FG14, Kau11, LCC11b, NCH11, NRKR13, Oli10, PYR^+12, SYO10, SYOL07, SIS^+11, TRF05]. **Climate** [HFVH17, ZPW^+24, BEF15, CK14, Pet13]. **Clinical** [Lee21a, WMS13]. **clock** [BVDV13]. **clock-reading** [BVDV13]. **Close** [RML22]. **Closer** [CGBD23]. **Club** [HBTP13]. **Cluster** [FB19, NLW16]. **Co** [BAN21, MN23, TWC^+16, HBP13, MMZ09]. **co-authored** [HBP13]. **Co-citation** [TWC^+16]. **Co-operative** [MN23]. **co-taught** [MMZ09]. **Co-teaching** [BAN21]. **Coeducational** [DH18, SCB16]. **Cogenerative** [Hsu19]. **Cognition** [CC05, LCA16, MCF23]. **Cognitive** [AK20, BKMK24, BTJ23, FTWVC18, HHS^+21, HMM22, LHY24, LL14, LWZ^+24, Miy08, NLHS08, PEQS24, RXLC16, RV17, SLCK19, ST05, TT18, YT20, Bab10, BHMO14, CA14, CCWL15, Las13, LY13, SP15, TSP12]. **Coherence** [SV08, WL22, CL10]. **Coherency** [WL21]. **Coherent** [SCS19, WD12]. **Collaboration** [CC16, EG17, QCH23, TPS21]. **Collaborations** [TSC17, Kot10].
MBBR08, PRW+07, SL21, Sum16a, Sum16b, TL21, TYC17, UKM11, Wan07, WL08, WAL23, WAL24, YYC04, YL22, ZZ16, AV06, AÖÇ10, CLY10, Chi12b, HK10, KGA+11, KB16b, Ko10, LNW22, Oh14, SKA11, Wai14, WCY16, Yan14. Concepts [AT07, AGW24, CB16, CC05, EG17, HC23, HC24, IÆED+23, MSA+10, SL21, Sum16a, Sum16b, TLT21, TYC17, UKM11, Wan07, WL08, WAL23, WAL24, YYC04, YL22, ZZ16, AV06, AÖÇ10, CLY10, Chi12b, HK10, KGA+11, KB16b, Ko10, LNW22, Oh14, SKA11, Wai14, WCY16, Yan14].

Conceptual [ASR19, BPG11, CAC07, CB16, EG17, FB19, HA07, Hua17, JW15, KTBG15, KN13, LCC11b, PC13, RCT+11, STC12, Tan11, TCC+10, VRW05, WMS13, WCY16].


Concrete-Representational-Abstract [ZYJ22]. Concretisations [LTT+19]. Condensation [WT18, HS14]. Conditional [YCL04].

Conditionals [LPK24]. Conditions [GBC21, GBC24, HSM006, KBK15, SMB12]. Conduct [DB17, BHSC10].

Conducting [Law05]. Confidence [Dog12, Fos22, YS19a, YS21, JLCT12, Lep12, STC12]. configuration [LL14].


Connections [AGBC17, LNP+18, MSGGVZF20, Sch15]. Connectivity [GPR+18]. Consequences [PP15, DK10]. Conservation [Ron18, SBR14].


KL18b, LFM$^{+19}$, SB21, SWCH20, Kuw13, MLK$^{+15}$, Sch15, THV$^{+15}$

**Culturally**
HASR24, HM22, JMS16, RJ21, SWYS24, SWAEKS19, ATG13, NRKR13

**Culture**
[GL22, HLTH18, Kaw07, QVST17, Sch14, Tsa06, TLHV16a, TLHV16b, WFP04, DMNH11, KTBG15, MDT13]

**Culture-Dependent**
[TLHV16a, TLHV16b]

**Cultures**
[KL23a, TH19]

**Cure**
[BWM$^{+24}$]

**Curiosity**
[HHS$^{+21}$, SML24, BSLM16]

**Current**
[RM24, ZTW23, KTBG15]

**Curricula**
[Alg20, Dog16, Ram24, ST24, VT07b, WL21, dFAN13, VT07a]

**Curricular**
[JSRP20, FD12, HBTP13, So16, Tan11]

**Curriculum**
[BVDV13, CC18, DNWC18, FYL21, HJHR21, Hua17, KC22, KR18a, KYA13b, Leu05, LC23, LS24, Mel10, SC03, Sah10, SCSK19, Sty08, TCV03, TC07, VB20, WM17, WB20, WM19, Wat17, WO19, XFH23, ZF06, CTGS15, HFBP13, HFWY14, KYA13c, Kuw13, OS10, PZLR16, TASA12, Tan11, VRW05, WLSC09]

**Curriculum-Based**
[KC22, LS24]

**Curves**
[KSC20]

**Cuts**
[HTCS19]

**Cycle**
[BPMK24, GOMLS18, ACY10, GDSD10]

**Czech**
[KV10]

**D**
[DA20a, CC18, DA20b, NF20, SLW10]

**D-Printing**
[CC18]

**Daily**
[MSAGHMG19, Danish, DAST, DAST-C, Data, Datasets, deal, Dealing, Decade, decades, Decimal, Decimals, Decision, BTJA18, FHLL19, LLL22, CBO09]

**Danish**
[DK10]

**DAST**
[MJMOR11]

**DAST-C**
[MJMOR11]

**Data**
[CC20, MRLM21, SKS$^{+23}$, SCDC21, SS21, TH19, TT18, WL18, WFK23, Che14, CP12, CMME15, LH15]

**Datasets**
[ALT$^{+07}$]

**Deal**
[BNH$^{+15}$]

**Dealing**
[RH15, vKF22]

**Decade**
[BF23, Lin12]

**decades**
[Tip10]

**Decimal**
[DGEP16, decimals, LM15]

**Decision**
[BTJA18, FHLL19, LLL22, CBO09]

**Decision-Making**
[BTJA18, LLL22, CBO09]

**Decisions**
[ED23, LL05, Ols07]

**Deductive**
[HM09, AE10]

**Deep**
[SLC17, defense, NPR12]

**Define**
[KL23b, MMP14]

**Definition**
[Dah17, PMCG$^{+17}$, Kid11, SG15, WCY16]

**Definitions**
[Dah17, Uh121]

**Defuses**
[AVT16]

**degree**
[EDS10]

**Degrees**
[AN18, CA14]

**Delivery**
[AM04, WSA07]

**Delphi**
[ABM24, WB20]

**Delta**
[TDBLY16]

**Demand**
[BJBT23, LHY24]

**Demands**
[BKMK24, HHH22, ON21, PB19, PEQS24, SC21, SCS$^{+12}$, TT18, WL21]

**Democracy**
[KKE$^{+17}$]

**Democratic**
[DS18, Demographic, AKA18, ES09, Las13]

**Density**
[KS21]

**department**
[Mel10]

**Dependent**
[TLHV16a, TLHV16b, WCY16]

**depth**
[VR12]

**Derivative**
[Wil20b, AU15, GLSM11, SMFL15]

**Derivatives**
[VGDD23, MMR15]

**Derived**
[BB17, CYT16]

**Describe**
[WFK23]

**Describing**
[KP18]

**Descriptions**
[Hsu19]

**Descriptive**
[PL15, LCC11b]

**Design**

**Design-Based**
[CRC22, KEET17, TAC19, WSZ23]

**Design-Integrated**
[MRC23]

**Designed**
[MDF08, TKY20, CCLW15]

**Designing**
[GACZ09, TDE18]

**Desire**
[BC06, SF22]

**Desiigning**
[EK19]

**Detection**
[UM18]

**Determination**
[CIZ$^{+23}$, KS21, TK22]

**Develop**
[APR$^{+17}$, HM22, PFCM23, SWYS24, AMBLL16]
[BB09, MRC23]. **Developing** [AK20, BTJA18, CGERBL18, CMP19, CFC22, ELY15, EY23, FCS15, Hal12, KR18b, LLP19, LP23, Oli10, SMFL15, SP21a, TMS22, VJ06, WP12, WCT+12, AE10, KB17, Lin09]. **Development** [AM04, AEP22, BMD+17, BHD+15, BCV21, BCO22, BB19, BSR24, CTC16, CC05, ERC03, GGSP10, Gun16, HDR21, HZL22, HCBZ03, HASR24, HpCH+16, HMM22, IAS17, HIED+23, KKS+19, KE23, KP18, KH08, KSL23, KH06, LTT+21, LYL23, LTCCY07, Lin04, LLC+15, LH16, LL+16, LS24, Lin17, Lof05, LTD+18, MB20, MMA05, OHL23, PP19, PDUA21, Per20, Ran06, RAL+07, SC03, STD+23, SCh22, SF05, TS06, TVC03, TSKB22, TDV+17, TYC17, VA21, Wan04, WC16, WK09, WBM21, WCG09, Yeo17a, ZPW+24, ZBE21, AU15, BC11, BMMO14, Cha10, CCG+11, Chi12a, DDG+12, FG14, FNM24, KB11, LG13, LCC+09, LYP14, MNE12, MAL+11, MNP14, Mor14, QM14, RSPK14, RVG15, Rut11, SOTF13, SYOL05, SYOL07, SWA+12, WHA14, ZB13, vA06, Yeo17b]. **Diagnosing** [AK20, CSM12]. **Diagnosis** [Saf18]. **Diagnostic** [HMM22, HIED+23, KE21, Lin04, LL17, TK22, TWS+23]. **Diagnostic-Remediation** [LL17]. **Diagram** [HC16b]. **Diagrammatic** [GBBW23]. **Diagrams** [DO23, MK23]. **Dialectical** [Dog21]. **Dialectically** [BB09]. **Dialogic** [BL21, CY23, JLL20]. **Dialogical** [AH11]. **Dialogs** [Hsu19]. **Dialogue** [El 23]. **Diaries** [LL16]. **Didactic** [BB21, FG21, KŠC20, MVC17a, OC21, EGP+09]. **didactical** [PR24]. **Didactician** [PR24]. **Differ** [SGHM15, SGHM16]. **Difference** [HNA16, Hii18, KBK15, LYY07, SCC23, ZG08, CBDV10, SLES09, WD12, YHT16]. **Differences** [AKA18, BF19, CCAG22, HC16b, KL23a, LFM+19, LLHC23, MRLM21, PEK+23, TPM19, WwLD+15, WICC+18, YCH04, BRMN15, CK14, CW23, Ing14, LY10, LM12, NSV13, PC13, VAF12, Yan14]. **Different** [AM04, Ble09, CA21, ÇP17, CC18, DNV17, EPEG07, ERdDS20, HBP17, KAK22, KRV+22, MNE12, PPCRC20, RB09, RL19, SLZ+18, AE15, BL09, CCN+12, DPK08, EE11, KST09, LLWS13, PMLC15, SBR14, WWTC10, Yik14]. **Differential** [Chi12a, KC22, NJ24, BSD13, DPK08]. **Differentials** [IA08]. **Differentiate** [Ari19]. **differentiated** [TT14]. **differently** [HCC15]. **Difficulties** [CABR06, LL06, OÇ08, OBH17, RTC22, SY22, KGA+11]. **difficulty** [CKH15]. **diffusion** [TCC+10]. **Digital** [GGD15a, LL22, Lem21, LLN+21, TH19]. **Dilemma** [HHT+20, LP11]. **Dimension** [FB06, SVDK09]. **Dimensions** [Dhi08, EN08, MMR15]. **Diploma** [LTCCY07]. **Direct** [HBF+22, RV17, VR23, Wan20, FD12, KTBG15]. **Directed** [SJL20]. **Directions** [Ler07, LK18b, Sum20, ACY10]. **Disabilities** [M023, NAÇE22, ZYJ22]. **Disadvantaged** [HILAT16, Ng20]. **disciplinary** [CK14, CW23, EFL+13]. **Discipline** [HTCS19]. **Disciplines** [CS16, IAS17, RBT20]. **Discourse** [Das05, EHM19, McG03, SML24, YUG24, BJ10, EFL+13, OL10]. **Discourses** [BL21, KKE+17, KL18b]. **Discrete** [Ler22]. **Discursive** [Shi18, TA15, FL11, GCK15]. **Discussion** [BRA+20, CH20, EH18, MWA23].
Discussions \cite{Bil06, Gus24, LLT20, SJL20, vKF22, PK15].

Disentangling \cite{PEQS24}. Dislikes \cite{UM18}. display \cite{MMM11}. displaying \cite{STC12}. Dispositions \cite{CYLL23, LCW24, HY05}. Disproof \cite{OL08}.

dissection \cite{MIJJ15}. Distance \cite{AM04, FLP23, Yor23, KST09}. Distinguish \cite{CA24}. Distinguishing \cite{TS04}. distracter \cite{BHSC10}. Distributive \cite{LS15, TC09}. distrust \cite{AB13}. Diverse \cite{BMD17, HM22, SAPM22, SWYS24, SWEK19, Wil21].

Diversifying \cite{Owe14}. Diversity \cite{BC06}. Divides \cite{TH19}. division \cite{CL10}.

Do \cite{AN18, AKA18, BC06, CBDV10, Dog16, GY19, HAC24, HCBS18, KBK15, LJ16, Lin16a, MMM11, OHLC23, RH17, SB21, SY22, SRSD23, WT15, ZPW24, ZK20, AB14, DL12, GR21, WK23, ZS11, HCBS18a}.

Do-able \cite{OHLC23}. Documentation \cite{PR24}. documenting \cite{CBT12}.

Does \cite{DD23, DWM16, HA24, MNBZH05, SAA18, SGHM15, SGHM16, WKG20, WHH08, ZG08, MSK22, SLES09}. dogma \cite{DCFC16}.

Doing \cite{TLK17}. Domain \cite{DH18}. don’t \cite{DBS15}. Double \cite{HZBC24, LS21, LLWS13}. double-choice \cite{LLWS13}. Dragging \cite{Ng19}.

Drama \cite{ARdMB23}. Drawing \cite{TRF05}. Drifting \cite{ABAHA23}. Driven \cite{CWLH19, Pet22, SML24}. Dual \cite{KG15}. Duoethnography \cite{LdCCK21}.

Durability \cite{HA07}. During \cite{BHD24, DF22, EL23, EN08, FLP23, GR21, HK818, KR18a, KRS23, LBF24, LCTK24, LC23, SBR22, SAK24, SP21a, YKUIB17, YY13, EGJ09, GN08, KLJ13, Kon13, Kot10, OS10}. Dutch \cite{VTCvS14}.

Dynamic \cite{EY23, JKYA13b, KA19, KBK15, KYJS12}.

E-Based \cite{YWC18}. e-learning \cite{SLW10}. E-textbooks \cite{GPR18}.

Early \cite{AS22, BB19, Bro22, GBC21, GBC24, HM22, KBK15, LM21, LKL20, PH19, PEK23, PCM22, TM17, UH21, WwLD24, Ing14, Lee16a, Per20, TOV10}.

Earth \cite{Liu05, DC16, Fan21}. East \cite{WL21, WKL23, ZL11, ZK20}.

Eastern \cite{BSD13}. Easy \cite{HHH22}. ecocultural \cite{Owe14}. Ecological \cite{HC23, HC24, RB09}, economic \cite{CA21, LNW22}. Economically \cite{HILAT16}.

Ecosystems \cite{JSH19}. Editorial \cite{Ano03a, Ler04, Lin05a, Lin12, Lin05C, Shy03, Tre04}.

Educ \cite{LGS18a, LGS18b}.

Education \cite{AH09, Alg20, ALT20, AM04, Ano12a, Ano12b, ABH17, BSG23, BV24, BC05, BF23, CD23, Ch04, CIZ23, CFC22, DBV22, DWM16, EB20, Eng17, FHL99, Fre21, FRC24, GCCCG18, GC21, GBC21, GBC24, Gil04, GSJ17, HC16a, HDxJ21, JRS22, KST23, KS20, Kaw07, KYA13b, KA19, KBK15, KyO6, LF17, Lee21b, Ler07, Len22, LTCCY07, LLL22, MJ18, MN23, MFG21, NOVRR22, OHL23, PZA16, PA22, PH18, QVST17, RTC22, RL19, RML22, RAL20, SPF23, SC03, SBR22, SBS20, SSK21, SS21, SB16, SWEK19, TW21, TLK22, TSKB22, TYW17, TM17, Tsa06, VRFC18, VTV16, Wam20, WSC22, WKG20, WCB23, YT22, Yor23, ZSW21, ZX20, ZPW24, ZPH20, ZBE21, AV06, BMN16, BS15, BK13b, CRG13, CBO09, CBT12, DFR06, Ded11, HEB11].

education
[HpCH+16, Kaz14, KGA+11, KYA13c, Kni10, Kôn13, KKvdW15, KB14, Las13, Lee16a, LH+12, LH15, LC14a, LC14b, Lui13, MR14, NFK10, NFB+15, NDD14, OEMZ12, RR11, RR09, Sch15, SBN14, TOV12, TDBLY16, Tip10, YL08, ZKS+05, HL07, SYOL07, VT07a]. **Educational** [KK22b, LF17, Law05, SLZ18, TKY20, TNHK23, ZX20, Ko10, LLL15, MP10, NFK10, SBR14]. **Educator** [KEB21, LdCCK21, RBE21, Sum20, TPS21, VA21, WHC17, AE10]. **Educators** [CFC22, HDR21, SP21b, WBM21, Ama16, ZKS05]. **Eect** [AT07, AOZ09, CA21, CHC16, CT04, DMNH11, GG09, HSK24, HHT+20, HHT21, HMS16, IV24, Ja20, Jia19, KST+23, LLWS13, Ma23, PDU21, RVT20, Sch14, TY23, TH18, YT20, AT15, BZST10, Ebr12, LM10, Oh11, PDG15, SWA+12, WLSN14]. **Effective** [CO22, FHMIL18, Koy23, KFM+17, RAL+07, TLK17, TDE18, CBO09, OO12]. **Eectiveness** [AAF12, DCOK23, FL23, GC21, TAC19, WT18, WSA07, YS19b, Bra12, ÇAC09, CS15, KYA13a, MP10, PZLR16, WWT010]. **Effects** [BB17, BCO22, DJB15, FTWC18, GN08, HHH22, Kau23, KWO07, KKL20, KEET17, Las13, LW18, Len06, NOVRR22, Ng10, PL15, PEQS24, RV17, SEW18, SLK20, SKS+23, SAPM22, Su08, UE19, VR23, WSZ23, YZK15, Yam18, YSHC23, YT07, ZYJ22, BJ10, BMHO14, CA14, CTGS15, CCWL15, MMV16, ÖDC09, YHT16, BK13a]. **Efficacy** [AO16, DC06, Gao20, HZL22, HL22, HHT+20, HHT21, LLW+20, LJC08, LTD+18, MS18, MA21, OHLC23, RB09, TL21, TH18, TNHK23, VB20, WT20, YZK15, YLTO21, ZPW+24, Bag11, BPM+24, Bur10, Cha10, CK14, JLC08, KIR12, Lan22, LZW+24, LM12, Pet13, RCT+11, SKS+23, SH24, Ut14, VHM22]. **Effort** [RS24]. **Egyptian** [SOTFI13]. **eight** [Kau11]. **eighteenth** [Pap10]. **Eighth** [CCN+12, DA20a, DA20b, IA08, LM21, AR10, JLC+13, Lee11, Mor14]. **Eighth-Grade** [IA08]. **Einsteinian** [BBT24]. **Elder** [PTW05]. **Electric** [CK06, Lin16a, KTBG15, SY14]. **Electrical** [CA21, TAC19]. **Electricity** [AOZ09, ABG06, KH15, TY23, TW+17, Gow12]. **Electrochemistry** [AT07, OL14]. **Electrolysis** [STC12]. **Electrolytic** [RTC22]. **Electromagnetic** [AC15]. **electromagnetics** [Lep12]. **Elementary** [APR+17, AGW24, AM04, ABG06, Bil06, Ble09, BRR+22, BCO22, CJ17, ÇAC07, CO20, CRC22, CA24, Cho21, DC16, DHB19, DN17, Din18, Eng17, ED23, ELO08, HbK19, HNMG16, HKS122, HH+23, HMC19, Jac12, KL18a, KK22a, KR18b, jKMH20, Kim22, LBP+24, Len05, Li11, Lin14a, Lin16a, LLC+16, LL17, LJC08, MDF08, MVC17a, MS18, MOI07, NPB16, Oro16, PL19a, PSB19, RMR22, SLK20, Sea16, SK23, TMS22, Ul21, UFW17, VTV16, W107, WIC+18, YKC18, YSHC23, ZYJ22, AAS13, Bay13, BL09, Bur10, ÇTC04, Cha10, CKH15, Ebr12, FG14, JLC08, KB17, Lee16a, Oli10, RB13, SLW10, TT14, WCT+12, WT15]. **Elementary-Aged** [RMR22]. **Elementary-Level** [HMC19]. **Elements** [AFG21, FMOMG16, GYU24]. **Eleventh** [SP05, TLR21, vV16]. **Eleventh-Grade** [TLR21, vV16]. **Eleventh-Graders** [SP05]. **Elicit** [SRS23]. **Eliciting** [AMA20, KB21, UD18, DS15]. **Else** [VWW+17]. **Elucidating** [LDG20].
Elusive [LF18]. Embedded [DP07, KST+23, LsL14]. Embedding
Emerging [EKC+21]. Emirates [PZA16]. Emotion [Dog12]. Emotional
[LAN20, MSAGHMNG19, Sum20, HY05]. Emotions
[LJ16, MSdSGG17, MSAGHM22, VCSA+23]. Empathy [Ron20]. Emphases
[HHJR21]. Empirical [Ber19, DNV17, PB19, PPCC20, Pit23, BK13b, HYC+16, LHL+12, NFb+15, RT10, WCY16]. Empirically
[BB17, JYC21, vDDDB22]. Employ [FWK23]. Empowering [PP08].
Enablers [MTMKR23, Wil21]. enact [CKH15]. Enacted [EE11, Ro19].
Enacting [RJ21]. Enactment [Leu05, XFH23, SC+12]. Enacted
[Nis17]. Encountering [LK18a]. Encounters [Dud17]. end [Las13].
endeavoring [dFAN13]. Endeavour [PH19]. Energy
[AKD+19, BBT24, CA21, EB20, ES09, GY19, ILED+23, JHHW16, KNF+20, MWA23, TT07, TAC19, YJY08, CSM12, EGN11]. engage [AE15, AE16].
Engagement [CK22, CWLH19, DBV22, LAS17, LCW+24, LS23, WFP04, rSY19, DS15, OBE12, RR11, RR09]. Engaging
[DC16, DBV22, Hi18, HS14, LCA16, NN11, QHS+20, WSW+08, CJC01].
Engineering [CRC22, CCCN17, CC18, CIBP23, DC16, EK18, FYL21, GS16, GRWP19, HP09, IAS17, KAK+20, LW16, MB20, MRC23, PPB18, PFFG+18, SK23, YWF20, ZSW+21, AC15, HCC15]. Engineering-Focused
[FYL21]. Engineers [KLS23, vdWBD17]. England
[EKC+21, SW23, SBN14, SBN16, TS20, WBB17]. English
[Ale14, AM14a, DBS15, DKL16, GHS+18, HILAT16, MR14, PSM+20, Sch14, SCDC21, SS19, ZPW+24]. Enhance
[BAN21, CMP19, Hua17, PP08, PSM+20, Cro09]. Enhanced
[ALT14, SMSBBZ23, Oh11, ODC09]. enhancement [Chi12a]. Enhancing
[AW12, AO16, BC05, CA07, CC16, CYK+16, EG17, FHM18, LL17, RR11, SD22, YFL15, ZBE21, RR09]. Enmeshments [Pro24]. Enquiry [PD17].
Enrich [ArtdMB23]. Enriching [SLK20]. Enrichment
[LN06, Ng10]. Enroll [BG17, SWDR20]. Enter [LSW19]. Enterprise
[Das05, PBDE23]. entities [AB11]. Entry [LHC17, MBP10]. Entry-Level
[LHC17]. Environment
[CP17, CT04, DH08, DA20b, DLD18, Hew04, KD09, KR18a, LLW+20, MDF08, MF05, O06, O06, P017, PCL18, SCZL18, SF05, Tur22, WCG09, YS19b, Yor23, BK13a, ETG16, GCK15, KB14, TDBLY16, Zei10, Zei15, DA20a]. Environment-Related [KR18a]. Environmental
[BSG+23, EB20, LLL22, NLL08, YTHH22, CBDV10, HY05, KIR12, LS14, LS14]. Environments
[ALT14, KAK22, KA19, KJ19, Lem21, MRJ+21, NG19, TDE18, TKS18, YWC+18, Cro09, GGSP10, HIS+16, HISH16, KAC15]. Epilogue
[HIS+16, LGS17a, LGS18a]. Epistemic
[BB22, HHS+21, HCH23, LLL22, PBDE23, VCSA+23, WSZ23, YHT16]. Epistemological
[CCL22, Cor17, DÖK23, ERdsS20, Mor09a, Mor09b, PS017, RJHB12, Rot20, Liu09, Top13]. Epistemologies
[AYLW16, RJHB12]. Equal [LP23, Mad22]. Equally [ZK20]. Equation
Equations [HSH22, NJ24, SGCS23, DPK08]. Equilibrium [Bil06, CdHD16].
Equi [MSH10]. Equiprobability [PL19a].
Equity [GCS10, HCBS18a, HCBS18b, MWA23, MP10]. era [RCG +11].
Erratum [Bes11a, BL09, Erd17a, HL07, KYA13b, sL14, Lin16b, LC14a, NvKR +18, SYOL07, SBN16, SGHM16, Tsa13, TCTC07, TLHV16b, VT07a, Yeol17b].
Error [KLR23]. Error-handling [KLR23]. Errors [EK18, GB22, HSH22, KAK +20, MRDCC17, SA16, Son22, vKF22, TSP12].
Eruption [LLP +24]. espoused [Sap13]. Essential [vdWBD17].
Establishing [BG17, SBM12]. Establishment [Miy08].
Establishment [AFG21, DIRTP24]. Estimation [HHH +23, Leu19, Pap10]. 
Evaluation [Gub16, JSH +23, KKS +19, KS21, Lor05, MB21, MF05, RML22, RTM +20, Saw19, SF05, YT07, AB11, BEF15, BK13b, LLI15, SBR14].
Evaporation [WT18, HS14]. event [Hob13]. Events [NAÇE22, YKUIB17].
Everybody [BRSG20, CCL22, IK18, LPK24, GS12, KYJS12].
Evidence [BTJA18, CH20, EB20, Erd17a, Erd17b, GS16, JH24, KL18a, KL18b, PB19, RCT22, RH15, WL18, Bes11a, Bes11b, CTT +11, HTWT14, LHL +12, Per20, ZL12, AKA18, CBVD10, Pe15]. Evidence-Based [KL18b, CTT +11].
Evidenced [PCM22].
Evolving [GGD15b, JSRP20, PR24, SY22, TMVC24, YY13]. Evolutionary [LF17].
Examination [BWK +19, CO20, HYL23, LCA16, LR20, McGo3, OBE12, SWCH20, TH19, TCH +17, TT18, BSA +14, Bes11a, Bes11b, KL1 +13, KKvdW15, NFB +15, ZC15]. Examinations [PB09].
Examine [GPCB15, Wan04]. Examining [AH11, AR10, DC16, HP21, HNMG16, HKS18, Hon23, KTC19, MIJ15, MB20, Ng19, PL19b, Pet13, QM14, TDE18, WL08, ZZB22].
Example [SD16, SLC17]. Examples [BHA +23, CO22, LL21a, Ön21, SGCS23, YT20].
Excellence [KN22]. Excelling [KN22, WLSL14]. Exercises [TSMW16].
Expectancy [KL23a]. Expectation [Dog12]. Expectations [AKHT23, LJC08, Wat17, CRR09, JLC08, MPB10]. Experience [ASR19, BKKMK24, Chio4, EK18, HHT +20, KBK15, MSAGHMNG19, S003, YY13, BHS15, MIJJ15, ÖDC09]. Experience-Sampling [MSAGHMNG19].
Experienced [ERC03, Als12]. Experiences [AAP17, ALJ23, Daud17, GCCCG18, HSK24, KYA13b, MSAGHMNG19, MO23, RBE21, SE22, TCC +24, CHK15, KYA13c, OS10, RRW11, SC11, ZB13].
Experiencing [BB19, SYOL05, SYOL07]. Experiential [Hsu19].
Experiment [LF17, Leu19, Aky16]. Experimental [CCAG22, EK18, GCCCG18, KW23, NAÇE22, ZGZM17]. Experimentation [Miy08, TLK17, ES16]. Experimentation/Measurement [Miy08].
experimenting [WLSC09]. Experimento [Dud17]. Expert
[CO22, SLCK19, TA15, WB20, CMME15, KK16, SB09]. Expert-Based
[SLCK19]. Expertise [BKMK24, BKC15, GPCB15, SIA23]. experts
[DW15]. Explain [CIZ+23, WFWK23, KYA13a, MR14]. Explain [KW23].
Explaining [BHV+24, CCW16, Uit14]. Explanation [JHWW16, TR21].
Explanations [DK18, GSO+17, PTW05, SKS+23, TT07, DE15, LTT06].
Explanatory [BHV+24]. Explicit
[JWR20, Pet22, TR21, UE19, EVV11, FB06, MMR15]. Explicit-Reflective
[Pet22]. Explicitly [CA24]. Explicitness [vV16]. Exploiting
[Fos15, TVC03]. Exploration
[Bla04, LL20, LPK24, MRLM21, Xu22, Hun14]. Explorations [KB21].
explorative [vA06]. Exploratory [BBT17, CT04, GG09, Lee21a, PZA16,
DRT+12, JW15, LLT09, RJHB12, Yan14]. explore [EFL+13, MJMOR11].
Exploring [ARZRV16, APR+17, Alg20, AYLW16, BSG+23, BHV+24,
BSR24, CY33, CWZ23, DC06, DPK08, DK18, FF23, FG22, Fre21, GPC23,
Gus24, HjKLL23, LHC17, Leu19, LS14, LCW+24, MWA23, Oxd10, PPB18,
PDU21, RCC22, SIA23, SL21, TT07, VHM22, VC33, WQNC17, WS16,
Wil20b, Wil21, ZB13, WLSC09, Fre24]. Expository
[HBF+22, MZC+19]. Expressed [CT17]. Expressing [OC21]. Expressions
[SGCA18]. Extended [OHLC23]. Extending [TLK22, TLK24]. External
[DNV17, LKC+15, MTMK23, RVT20, DV15, LLWS13, SB09]. extra
[HTBP13, So16]. extra-curricular [So16]. extracurricular [BMN16].
Extreme [Ron18]. Eye [HC16b, Jia19, LW18, SL20, SBK+14, ALA+15,
AM14b, CY14, CMME15, HTWT14, Hun14, LL14, YHT16]. Eye-Movement
[Ja19]. eye-tracking [ALA+15]. Eye-Tracking-Stimulated
[SL20].

Face [FLP23, LBF24, TYC17]. Face-to-Face [FLP23, LBF24, TYC17].
Facilitate [AGW24, Jia19]. Facilitates [PP19]. Facilitating
[CRC22, Che08, Dud17, LLT+20, NAÇE22, YE23]. Facilitator [RAL+07].
Facility [MOI07]. factor [Che12]. Factors
[AK13, AE16, CS16, FH13, Gih09, HGL18, JCC20, ÖSY24, PCL18, SEW18,
SWDR20, WHO8, ZBB22, GGD15b, HCC23, Hob13, LS14, MR14, SKA11].
Facts [KKE+17]. Faculty [Ceg21, McG03, MWM05, MO23, Din14]. Failed
[DBV22]. Fair [DRT+12]. fairs [DRT+12]. Fake [UM18]. Family
[Ho10, YZK15, MR14]. FCI [FB19]. Features
[BRA+20, BHV+24, LYC04, Wil20a, MMM11, RT10]. Feedback [Ols18].
Feel [Mer07]. Female [AKHT23, BG17, KA19, KRS23, SHM21, WT15].
Females [Bin20, RG20]. Fiction [ÖÖ23, HPP09]. fiction- [HPP09]. Field
[HC23, HC24, KVB22, LR20, Hob13, MG15b]. Field-Based [HC23, HC24].
Fields [AKHT23, HSK24, GACZ09]. Fifth
[AGW24, Erd17a, Erd17b, Yan03, HS14]. Fifth-Grade [AGW24]. fighting
[NPR12]. Figural [Will20a, GCK15]. Figure
[GAMDV22, GAMDV24, LW18]. Figured [SHM21]. figures [Pap10]. Fiji
[CABR06]. Find [KL23b]. Finding [BHWM20, RBE21, YL22, And14].
Findings [Ran06, TM17, ZV18, ZBH23, Fuli15, LC14a, LC14b]. Finite
Finland
[Bar17], Finland
[JLU+10, KLI+13, MTMKR23, SLZ+18, THV+15, TLHV16a, TLHV16b].
First
[AS22, ACY10, Arc12, Bla04, BHA+23, CABR06, Dah17, DC06, KRS23,
Kön13, PFFG+18, RCG+11, SS19, Vid15, AC15, DCFC16, NEAC10, RR16].
First- [Are12]. First-Year
[CABR06, Dah17, DC06, SS19, Vid15, AC15, DCFC16, NEAC10]. Five
[ES09]. Fixations [AM14b]. Fixing [ATN23, AHTN24]. Flemish
[BVDV13]. Flexibility [CGÖ22, DGEPI6, HHS+21]. Flipped
[CK22, Fre21, Fre24, SLV22, WQNC17]. Floating [HKSL22, SLC17]. Florida
[HFVH17]. Flow [HHT+20, RG20]. Flowering [Lin04]. Flowers [RL19].
Fluency [JC17, DK15]. Focus [KEB21, NvKR+18, NKR+18, Tay18, ZF06].
Focused [FYL21, WB20]. Focusing [PPCC20, VRFC+08, YYC04].
Follow [Khi23, LLT+20, Wan07]. Follow-Up [Khi23, LLT+20, Wan07].
Following [LH08, THAD20]. Food [PSM+20]. Footpaths [Kyl06]. Force
[Bay09, SV08, AAY15, Fu15, KST09, NSV13]. Forerunners [KEB21]. Form
[Che11, ELRW20]. Formal [BRSG20, RTM+20, SMPK+19, SF22]. Format
[BB17]. formation [LCC11b]. Formative
[CY21, Fos22, GPC15, KBK+22, jK19, LL06, SMSBZ23, CCN+12, WHA14].
Formats [YCH04]. Forming [BC05]. Forms [LAA+23, RBT20]. Forums
[Zio08]. Fostering
[CO22, GOMLS18, SMPK+19, TWS+23, VTV16, KTBG15]. Fosters
[CIZ+23]. Foucauldian [AC20]. found [LGS18a, LGS18b]. foundation
[QM14]. Foundations [ÖÖ23, YT22]. Four
[ABPV20, Bla04, KS21, SCC23, TK22, WOB12]. Four-Tier [KS21]. Fourth
[CÖ20, Yan19, Che14, Mor14]. Fourth-Grade [CÖ20]. fplu [NPR12].
Fraction
[CG22, DGEPI6, GD19, LL21a, NPP16, SWYS24, YC23, CL10, JC10].
fraction-related [JC10]. fractional [LH14, LS15]. Fractions
[ELCG24, GFFVV23, KR18b, LL21b, PUR18, Saf18, SP17, ZY22, SP15].
Framework [AEP22, CMP19, FYL21, GPR+18, JYC21, MC04, VT07b,
YL18, Yeo17a, Yeo17b, CBO09, Nyi15, Ols07, PZLR16, VT07a].
Frameworks [RH15, TT18]. Framing [HK21]. France [SV22]. Free
[BB17, DD23, HHT21, Can14]. Free-Response [BB17]. Freshmen
[BMD+17]. Frustration [WT20]. Function [DNV17, HE17, PMCG+17,
WBB17, YL22, DDG+12, Mor09a, Mor09b, Nyi15, Voy11]. Functional
[AAM20, AAM24, HY07, KWMW22, PC22, DDG+12]. Functionality
[SWAES19]. functioning [BSD13]. Functions
[AWL16, DNV17, EPEG07, GZ21, KŠČ20, SCi22, AGB14, DVV15, FH12,
Lin14a, MMP14, NFB+15, WLSL14]. Fundamental [ABPV20, CYT16].
Funds [MWA23, CJOC11]. Future [ABH17, GSJ+17, LK18b, SEW18,
YAC10, YT22, vdWBD17, HWW13, Las13, WT13, WMP+12].
CCW16, CYT16, Das05, DJE17, HLT18, KRV+22, KVB22, Mea07, ÖSY24, Pet22, PD17, RH17, RMR22, SR21, SH24, SGCA18, TYC17, HGK11, Ing14].

Influences [CK14, KH06, LFM+19, VVR24, Ho10]. Influencing [JCC20, GGD19, VVR24, Ho10]. Influencing [JCC20, GGD15b, Ho10].

Informal [CCW16, CYT16, Das05, DJE17, HLT18, KRV+22, KVB22, LCA16, LF17, Su08]. Informing [DK14, KH06, LFM+19, VVR24, Ho10].

Informing [JCC20, GGD15b]. Informing [AH00, GGD15a]. Informing [CCW16, CYT16, Das05, DJE17, HLT18, KRV+22, KVB22, LCA16, LF17, Su08].

Informed [HHS24, MVC17a, MVC17b]. Informing [DCFC16, OHMW21]. Informing [Ols07]. Infused [HIS+16, HISH16].

Inheritance [DCE16, OHMW21]. Informative [CCW16, CYT16, Das05, DJE17, HLT18, KRV+22, KVB22, LCA16, LF17, Su08].

Inhibition [MZC+19] Inhibitory [BES12]. Inhibit [CCW16, CYT16, Das05, DJE17, HLT18, KRV+22, KVB22, LCA16, LF17, Su08].

Inhibition [MZC+19]. inhibitory [BES12]. Inhibition [MZC+19]. inhibitory [BES12].

Innovation [GT19, XFH23]. Innovations [LTT+19]. Innovative [CCW16, CYT16, Das05, DJE17, HLT18, KRV+22, KVB22, LCA16, LF17, Su08].

Innovative [CCW16, CYT16, Das05, DJE17, HLT18, KRV+22, KVB22, LCA16, LF17, Su08]. Innovative [CCW16, CYT16, Das05, DJE17, HLT18, KRV+22, KVB22, LCA16, LF17, Su08].

Innovations [LTT+19]. Innovative [CCW16, CYT16, Das05, DJE17, HLT18, KRV+22, KVB22, LCA16, LF17, Su08]. Innovative [CCW16, CYT16, Das05, DJE17, HLT18, KRV+22, KVB22, LCA16, LF17, Su08].

Inquiry-Based [CCW16, CYT16, Das05, DJE17, HLT18, KRV+22, KVB22, LCA16, LF17, Su08]. Inquiry-Oriented [LLT+19]. Inquiry-Oriented [LLT+19].

Insights [CO18, DL22, IK18, KH06, LSW19, LG13, MCF23, OC21, QC21, TDE18, CKH15, GACZ09, RCT+11]. Institutions [SF22]. Institutions [SF22].

Instruction [AMG16, BB19, CY23, CA21, FLP23, Fun21, Hua17, KTC19, LdCK21, LTD+18, MH17, MA17, MWM05, PL15, PUR18, Sch14, TR21, TY23, Tho22, Wan20, WQNC17, WFK+16, YZK15, YKJ20, YT07, ZYJ22, AT15, CMEM15, DBS15, GN08, Gok12, Gok15, LIWS13, LM10, LYP14, MSH10, Tan11, TT14, VR12, WWT10, Yik14].

Instructional [AMG16, BB19, CY23, CA21, FLP23, Fun21, Hua17, KTC19, LdCK21, LTD+18, MH17, MA17, MWM05, PL15, PUR18, Sch14, TR21, TY23, Tho22, Wan20, WQNC17, WFK+16, YZK15, YKJ20, YT07, ZYJ22, AT15, CMEM15, DBS15, GN08, Gok12, Gok15, LIWS13, LM10, LYP14, MSH10, Tan11, TT14, VR12, WWT10, Yik14].

Instructional [AMG16, BB19, CY23, CA21, FLP23, Fun21, Hua17, KTC19, LdCK21, LTD+18, MH17, MA17, MWM05, PL15, PUR18, Sch14, TR21, TY23, Tho22, Wan20, WQNC17, WFK+16, YZK15, YKJ20, YT07, ZYJ22, AT15, CMEM15, DBS15, GN08, Gok12, Gok15, LIWS13, LM10, LYP14, MSH10, Tan11, TT14, VR12, WWT10, Yik14].

Instructional [AMG16, BB19, CY23, CA21, FLP23, Fun21, Hua17, KTC19, LdCK21, LTD+18, MH17, MA17, MWM05, PL15, PUR18, Sch14, TR21, TY23, Tho22, Wan20, WQNC17, WFK+16, YZK15, YKJ20, YT07, ZYJ22, AT15, CMEM15, DBS15, GN08, Gok12, Gok15, LIWS13, LM10, LYP14, MSH10, Tan11, TT14, VR12, WWT10, Yik14].

Instructional [AMG16, BB19, CY23, CA21, FLP23, Fun21, Hua17, KTC19, LdCK21, LTD+18, MH17, MA17, MWM05, PL15, PUR18, Sch14, TR21, TY23, Tho22, Wan20, WQNC17, WFK+16, YZK15, YKJ20, YT07, ZYJ22, AT15, CMEM15, DBS15, GN08, Gok12, Gok15, LIWS13, LM10, LYP14, MSH10, Tan11, TT14, VR12, WWT10, Yik14].

Instructional [AMG16, BB19, CY23, CA21, FLP23, Fun21, Hua17, KTC19, LdCK21, LTD+18, MH17, MA17, MWM05, PL15, PUR18, Sch14, TR21, TY23, Tho22, Wan20, WQNC17, WFK+16, YZK15, YKJ20, YT07, ZYJ22, AT15, CMEM15, DBS15, GN08, Gok12, Gok15, LIWS13, LM10, LYP14, MSH10, Tan11, TT14, VR12, WWT10, Yik14].
[GPC23, HMM22, KK22b, KLH15, PB19, DL12].


Korean [CMP19, HK10, JMS16, KB17, LFF03, Lec11, MLK+15, OS05, PL19a]. Kosovar [ETG16]. Kuwait [Ebr12]. Kuwaiti [AR10, Ala16, AMG16, Jaf20].

[KL23a]. **Latin** [MJ18]. **Latvian** [Sap13]. **law** [TC09, Maj14]. **Laws** [McC03, NY11]. **Lead** [BCV21]. **Leader** [Ama20, BCV21]. **Leaders** [LBBE22, VHM22]. **Leadership** [HCBZ03, YWG21, BK13a]. **Leaky** [ATN23, AHTN24]. **Learn** [And03, AKA18, BCV21]. **Learned** [Ho10]. **Learner** [CRC22, Eme09, GB22, OCM00, PSM05, TT07, AB13, FL11]. **Leaders** [LBBE22, VHM22]. **Leadership** [HCBZ03, YWG21, BK13a]. **Leaky** [ATN23, AHTN24]. **Learn** [And03, AKA18, BCV21]. **Learned** [Ho10]. **Learner** [CRC22, Eme09, GB22, OCM00, PSM05, TT07, AB13, FL11].

Materialist [NF20]. Materials [CCL22, KRV+22, KP18, Sty08, OS10].


Math/Science [WICC+18]. Mathematical [Aky16, AS22, Ama20, Bea22, BOL23, BF23, CPTMSM22, CL20, Chi09, CGTQ21, DHB19, DD23, DG19, DA20b, DJE17, GB22, GAMDV22, GAMDV4, GOMLS18, Gus24, HNA16, HE17, HMHG20, HMC19, HCBS18a, HCBS18b, IFL20, JC17, JSS17, Joh16, KL18a, KRV+22, KC20, KB16a, KL18b, jK19, Koh19, KH06, KFM+17, LL22, LBF24, LLLP19, Lee21b, LTT+20, LR08, MSdSOT17, MSGGVZDF20, Mea07, NK04, Ols18, PEK+23, PN18, PB19, RML22, Sum13, Sum16a, Sum16b, TMS22, VWH+17, VGDD23, WSW+08, Wil20b, WwLD+15, YKC18, YE23, Ye017a, Ye017b, YPT07b, ZG08, vV16, AH11, Bra12, DPK08, Fer14, HL13, JSP15, KHL12, LM15, LS15, LLWS13, Lin06, PPS12, PC13, Voi11, vdWBD21, DA20a]. Mathematically [LTT06, LG13]. mathematically-talented [LG13].

Mathematician [YMZ22]. Mathematicians [AC20, ARZRV16].

Mathematics [AN18, AVM16, AC20, AVT16, ABPD16, AMFC21, AS22, AL22, ALT+07, ALT14, ABPV0, And03, Ano12a, Ano12b, Ari18, Ari19. Ari24, AE10, ANLL21, BRA+20, BFH19, BKMK24, BJ23, Bet19, BC21, BC022, BWO20, Bro22, CJ17, CTC16, CD23, CK22, CCCN17, CC16, Cor18, Cor7, CBR21, DF22, Ded11, DRZ20, DB17, Dog12, Dog16, DNWC18, DKL16, DJE17, DB15, EHM19, EI 22, EkB19, ES08, ED23, ERC03, ES24, FCS15, FTWC18, FI19, Fog22, FB06, Fre21, Fre24, GPC23, Gao20, GBC21, GBC24, GR21, GYU24, GG09, GPA01, GSJ+17, GHL22, Güv09, HTCS19, HJKL23, HHJR21, HAC24, HKS18, Hii18, HFBM24, HYL23, HL07, HDvJ21, HCH23, IV24, IA08, JLO18, Jao17, JRGB23, JSPR20, JWR20, JRS22, JMS16, KC22, KL23a, KCS23]. Mathematics [KLR23, Kau11, KEC23, Kil18, KD22, jKMH20, KL15, Ko10, KN22, KBK15, KRU19, Kot16, Koy23, KEB21, LAN20, LR20, LBP+24, LJ16, Lau22, LOJ08, LHC17, Lee21a, Lee21b, Leh22, Lem21, Len06, LTT+19, LTT+21, Ler07, Len05, Len19, LTCC07, Lin05b, LW16, Lin17, LTN+21, LdCC21, LCW+24, LKL20, Lin13, LK18b, MSS22, MK23, MCF23, MHIS09, MSGAGMSGAG, MSGGVZDF20, MSGAG, McM04, MWM05, MRLM21, MKS16, MF05, MCO4, MN23, Ng10, NLW16, hCN18, Ng20, NF20, NDD14, OL08, OE19, Oro16, PP08, PP15, PSB19, PRV+07, PFCM23, PA22, PD17, RH17, RS24, RJ21, RL19, RAL+07, RBE21, RA17, SCG+19, SCGS23, SS18, SV22, SMG+19, SL20, SLK20, SMPK+19, SCDC21, SML24, SE22, SAA18, SSS18, SYOL07, Shi21, SS21, Shi22, SBN16, SF05, SS19, Sty08].

Mathematics [SMZ06, Sum20, SCC23, SMSG23, TH19, TLK22, TLK24, TCC+24, Tay18, TCH+17, TLR21, Tuo22, TSP16, TPS21, Tsao6, TYC17, TLHV16a, TLHV16b, TNHK23, TPK+23, TS04, Ulu21, UD18, UFW17, VRFC+08, VRFC+18].
Methods [Ble09, CA24, Cor17, DB17, Jao17, Lee16b, McC03, RB09, SMPK+19, VJ06, WL08, BL09, JLU+10, Lee16a].


Middle-School [WL22, TSO16]. Might [Tho22]. Migrant [ZK20].


Mixtures [CB16]. Mobile [ABH17, CCAG22, CME15]. Mode [SG09].


Model-Based [CA21, KK22a]. Model-Eliciting [UD18]. Modeling [BÖL23, CIBP23, HC23, HC24, HBK19, KD09, Lee18, LC23, MWM05, PL15, SCG+19, TIG14, TMS22, YE23, HS14, JLC+13, Lin14a, Sch15, SP15, VAF12].

Modeling-Based [LC23]. Modelling [AS22, Eng23, Gil04, GOMLS18, LBF24, Lee11, SP17, DS15, DK15, OD15].

Models [DC16, EY23, Gil04, HbK19, KAK+20, Lee18, LL21b, Lin05, LR08, NPT17, SP17, SRS2D23, AB11, AB13, MMV16, WOB12, WL14]. Moderate [HCBS18a, HCBS18b]. Moderating [TH18, YSHC23]. modern [Pap10].


Motivation [ALI23, AKA18, BB09, CB16, CL20, EP21, FT05, FTWC18, FLP23, HBP17, HHT+20, KWO07, KTC19, NLW16, hCN18, Ng20, ORO16, PP15, VC23, ZL11, rSY19, CHW11, DRT+12, MDT13, OL14, VAF12].

[HTCS19, SP21b, Am16, AB14, CMME15]. **NSW** [VC17]. **Nuggets** [SKS+23]. **Number** [ABPD16, Als12, CO20, DGE16, ERdS20, LYC04, MOI07, PUR18, RVT20, Yan03, YnL08, YRR09, YS21, YC23, HNB11]. **Numbers** [AGF21, ERdS20, GFCG18, LTM18, Che12]. **Numeracies** [ZZ09]. **Numeracy** [GGD15a, DL12]. **Numerical** [ES09]. **Numerosity** [RMR22]. **Nursing** [DLD18]. **Nurturing** [Gal22]. **Nutrition** [CGERBL18]. **Nyanza** [Bag11].

**Object** [EA19, HHT21]. **Object-Free** [HHT21]. **Object-Related** [HHT21]. **Objectification** [El22]. **objects** [PMLC15]. **Observation** [KP18, TKS18]. **Observational** [PL15]. **Observations** [VCSA+23, ZBH23]. **observe** [KYA13a]. **Observing** [LdCCK21, RH19, TKS18]. **Obstacle** [SVDK09]. **Obstacles** [Nis17, Mor09a, Mor09b]. **Occur** [LH08]. **Ocean** [BPMK24].

**OECD** [YCH04]. **of-the-art** [HEB11]. **Offer** [WKG20]. **Offered** [Sty08]. **Offering** [SR21, SMG+19]. **Officers** [SC03]. **official** [AV06]. **Old** [DAM19, NK04, PEK+23, MR14]. **Older** [RVT20]. **olds** [BFE15, EVV11].

**Omani** [AAF17]. **On-Campus** [PDUA21]. **One** [AVM16, CL20, Dud17, HK21, JSH+23, RL12]. **Oneself** [HK21]. **Online** [CH20, LCB21, Str20, TSMW16, WC16, HTWT14]. **Onto** [GGBW23]. **Onto-semiotic** [GGBW23]. **Open** [LNP+18, LPK24, Zio08]. **Openness** [Yeo17a, Yeo17b].

**Opinions** [Bin20]. **Opportunities** [And03, BML24, EH18, Fan21, HKS18, Hon23, jK19, jKMH20, PA22, QHS+20, SMZ06, ZKS+05, AE15, AE16, WT13]. **opportunity** [MRA10, ZC15]. **Optics** [MVC17a]. **optimal** [Cro09]. **Oral** [IV24]. **Order** [Gub16, SCC23]. **Ordered** [HMM22]. **Organic** [HMS16, YY13, LT11]. **organiser** [GN08]. **organising** [KN13]. **organization** [CTGS15, MaJ14]. **Organizing** [OE19]. **orientation** [LHL+09, Ozdi10, RR16, Uit14].

**Oriental** [RH15]. **Orientations** [GHL22, MAL+11, ZP06, RCG+11]. **Oriented** [LLP19, LLC+16, MNBZH+05, TY23, DMNH11, RVG15]. **origami** [AT15]. **origami-based** [AT15]. **Origin** [BBT17, Gov17]. **Origins** [BdSSC16]. **Orthodox** [EHM19]. **Our** [BC06, Owe14]. **Out-of-Field** [LR20, Hob13]. **out-of-school** [MMK11]. **Outcome** [LJC08, JLC+13]. **outperform** [ZS11]. **Overall** [CGTQ21]. **Overcoming** [KBH+15, Ron18]. **overt** [AM14b]. **Overview** [Rao06]. **Ownership** [EN08, EGJ09]. **Oxidation** [Own06, Own10]. **Oxidation-reduction** [Own10].

**Pacific** [CABR06, TVC03]. **Pakistan** [Hal12]. **Paleontology** [LCB21]. **Palestinian** [Zei10, Zei15]. **Pandemic** [CMM23]. **Paper** [EK19, Lem21, KAC15, RR09]. **paper-and-pencil** [KAC15]. **Paper-Based** [Lem21]. **Papers** [Ano13, Ano12c, sL13, Tsa13]. **Papua** [PTW05]. **paradox**
Practicing [KBK+22, SAA18]. Practitioner [HHS+21, PH19]. Practitioners [ERC03].
Pragmatic [WCB23]. Praxeological [TS20]. Praxeologies [PR24]. Pre [Ala16, ABPD16, AO16, BSLM16, BSG+23, Bay09, BV24, Bil06, Bla04, ÇAC07, CPTMSM22, CY21, CT04, DS15, DB17, DJB15, EKC+21, ELO08, GC19, Gub16, HM09, İIED+23, IFL20, Jaf20, Jao17, JRWB23, KEC23, Kil18, KN13, LL23, Lct22, LL06, LHC17, LL21a, LL21b, Lin05b, MRC23, ÖÖ23, PSB19, Pet22, PA22, RML22, Ron20, RCC22, SBR22, Tay18, TM17, VBACCG22, Wan20, WSW+08, YZK15, YRR09, CA14, DK15, GGD15b, KIR12, KB17, MPB10, NN11, Oh14, SMFL15, TRF05]. Pre- [BSG+23, LL23]. pre-entry [MPB10]. Pre-kindergarten [TM17].
Principles [KJ19, SLV22, UD18, CCWL15]. Print [HY07]. Printing [CC18, NF20]. Prior


Reactions [Own06, Own10]. Read [HHH22].
Real [ASR19, AS22, BLS20, GOMLS18, Jon19, NJ24, PDÜA21, SS18, CP12].
Real-World [ASR19, Jon19, NJ24, AS22, CP12]. Realism [WKG20].
Realistic [Fre21, Fre24, RL19, CVCCV11, SP15]. Realities [Fan21, AV06].
Reality [LVW+24, SD22, SLW10]. Reality-Assisted [LVW+24]. reasonable [AR10].
Reasonableness [DD23, Yan19, YS19a].
Reasoning [AD16, ABM24, AB18, BBST06, BRSG20, BWO20, CGBD23, DHB19, DWM16, DN18, DL22, DLD18, GPC23, Get23, GGBW23, HMO9, HM22, JLO18, JSS17, Joh16, KRV+22, KRI18a, KK23, KH06, LCY04, LY07, Ols18, PR04, RBT20, SCIB22, Shi21, SRS23, Sun13, Sun16a, Sun16b, Tur22, VWH+17, VC23, XFT21, YKUB17, AGB14, AH11, AT15, AE10, BES12, Bye13, CS15, FH12, GCK15, HNB11, LM15, LH14, NIV13, Per20, SW14].
Recognise [WFWK23]. Recognising [PN18]. recognition [AR10].
Recommendations [AL23]. Recommended [HFBM24]. Reconciliation [Cor17].
Refining [GZ21, PCL18]. Reflection [KD22, MH17, KLJ+13, KBY11, MNE12, SCS+12]. Reflections [LBF24, OS05, GLY09, Dog21]. Reflective [MA21, Pet22, SJL20, WL08].
Reform [CCT16, JSPR20, KA19, LHC17, Leu05, McGO3, MM05, WFP04, ALS12, MEL10, RCG+11, ZKS+05]. Reform-Based [McO03].
Reformatted [DNWC18, WL21]. Reforms [AHO19, VT07b, VT07a].
Refutation [KK19, MZC+19, Tip10, AM14b]. Refutational [LK1+15].
Regarding [AMG16, BRR+22, DBS22, Gov17, JSRP20, KL18b, LSW19, LG20, Mii08, WIl20b, Bur10, Del15, LG13, THV+15]. Region [TDBLY16].
Regional [TC07]. Regions [WL21]. registers [DPK08, MPP14].
Regulated [CT04, LCS15, HLT22, NLS10, YWC+18, AYL16, HYC+16].
Regulation [LZL+18, POS17, TAC19, LTR21, CC16, VAF12, YS19b].
Reification [Shi18]. Reinventing [Tur22, Pap10]. rejection [GGD15b].
Related [AYL16, BOL23, Gio09, HHT21, KRI18a, LHY24, LK18b, NIS17, PMCG+17, PEK+23, RH17, RS24, SRS19, TLH16a, TLH16b, YJY08, BW10, CSM12, CRU09, DC08, HWW13, JC10, KB16b, LS14, LS14, Ut14, WCY16].
Relatedness [ZBB22]. Relating [BRB+20, DL22]. LAA+23, TCC+10].
Relation [AGBC17, DHTA+24, LVW+24, LDC22, POS17, SC21, WT20, KKVW15, TSP12]. relational [KN13, Per20]. Relations
[EPEG07, FL06, LLHC23, MW09, MKSK16, YSHC23]. **Relationship**

[AYLW16, AD16, BHV+24, BRR+22, ES08, ELCG24, FCS15, HCH16, HILAT16, KC22, Khi23, Lee21a, SIA23, SL21, SS19, TLT21, Tay18, TH18, YunLo8, YKB21, AB13, CY14, KHL12, KV10, LY10, MAL+11, OBE12, Zel10].

**Relationships** [Ari19, Ble09, DC16, DRZ20, ES04, ELCG24, HILAT16, KC22, HASR24, LH14, LYO04, MKSK16, PCM22, YFW20, BL09, JLC+13, Pet13, Tig14].

**Relative** [KL18b, Pro24, PC13].

**Relevance** [Ari19, Ble09, DC16, DRZ20, ES04, ELCG24, GB22, HASR24, LH14, LY10, MAL+11, OBE12, Zel10].

**Reliability** [HHT+20, HASR24, ATG13, NRKR13].

**Relevant** [HHT+20, HASR24, ATG13, NRKR13].

**Religious** [Gov17, KB16b].

**Remediation** [LL17].

**Remote** [GS13, TYW+17].

**Renewable** [EB20].

**Repeated** [DDG+12].

**Replays** [Bro22].

**Replication** [IV24].

**Report** [Lin14b, Lin16b].

**Reported** [EP21, HDvJ21, Sap13].

**Represent** [AB11].

**Representational** [DGEP16, So16, YZJ22, DK15, NSV13, SW14].

**Representations** [AGBC17, AC20, AGW24, CW06, CCT16, DNV17, DK16, EPEG07, KL18a, KC20, LKC+15, MOI07, PN04, PCM22, RVTV20, SB17, Son22, TBP17, VC17, XFT21, AGB14, ALA+15, DTV15, EFL+13, LLWS13, PC13, SB09, WLSL14].

**Representing** [GY19, Lil07, RK10].

**Reptiles** [YYC04].

**Require** [KRV+22, PSB19].

**Required** [SMPK+19].

**Requirements** [Joh16].

**Rescue** [Zio08].

**Research** [ALT+07, AK17b, BV24, BK15, EL008, FHL19, HSK24, HSS24, JSC24, JRS22, KBH+15, KE21, Law05, Lee21b, Ler07, Lin05b, LK18b, MJ18, RM24, Ran06, SD16, Ssa19, Sho06, SWAES19, TLK22, TLK24, Tsa06, WKG20, Aky16, ACY10, CTT+11, CBT+12, Din14, GACZ09, Hal12, Ko10, KB14, MW09, MNE12, Ols07, Rut11, Tip10, YL08].

**Research-Based** [Lin05b, Din14, GACZ09, Ols07].

**Research-Informed** [HHS24].

**Research-intensive** [MW09].

**Researchers** [QCH23, KB14].

**Researching** [JRS22, KBH+15, KE21, Law05, Lee21b, Ler07, Lin05b, LK18b, MJ18, RM24, Ran06, SD16, Ssa19, Sho06, SWAES19, TLK22, TLK24, Tsa06, WKG20, Aky16, ACY10, CTT+11, CBST+12, Din14, GACZ09, Hal12, Ko10, KB14, MW09, MNE12, Ols07, Rut11, Tip10, YL08].

**Respiratory** [HbK19].

**Respiration** [SP05].

**Respiratory** [HbK19].

**Responding** [ED23].

**Response** [BB17, Gas24, KK22b, HSIC10].

**Responses** [CBR21, HSH22, KK22b, Ron18, Str20, SWAES19, THAD20, WHC17, BZST10, BFE15, BSML16, NPR12].

**Responsibility** [KSL23].

**Responsive** [HM22, jK19, NP23, Rj21].

**Restructuring** [MQ07].

**Result** [DC16, Yan19].

**Results** [DD23, GG09, MKSK16, OÖ23, VR23, YS19a, YAC10, BK13b, Ded11].

**Retention** [AKHT23].

**Retraining** [AFAN13].

**Retrieving** [CTC16, RH23].

**Reveal** [HbK19, SBK+14].

**Revealing** [PP15].

**Review** [FHL19, JRS22, HH22, LL23, MN23, SS21, TWY+17, WSC22, YKJ20, ZL20, LHL+12, LH15, Tip10, WC16].

**Revised** [WO19].

**Revisiting** [PA22, ZZ16].

**Rich** [ANLL21, EGJ09, MH17, ZB13].

**Rico** [HFVH17].

**Riemann** [JLC17].

**Rio** [Kyl06].

**Risks** [LLP+24, ZGZM17].

**Road** [Kyll06].

**Robotics** [ZX20].

**Robust** [NP23].

**Role** [AFG21, AAF17, CTC16, CO22, DN17, DK18, El22, GGD15a, GDFVCM24, HP24, HHS+21, KC22, KNF+20, Lau22, LLN+21,}
Ma23, MZC \textsuperscript{\textdagger}19, MFG \textsuperscript{\textdagger}21, hCN18, RS24, RGC08, SGCS23, SK17, SAPM22, TR21, TC07, Tho22, TNHK23, VGDD23, VC23, AE10, Bag11, BEF15, DTV15, FD12, MP10, MDT13, MG15b, OO15, WMP \textsuperscript{\textdagger\textdagger}12. role-playing [BEF15]. Roles [IAS17, KKE \textsuperscript{\textdagger}17, YUG24]. ROM [LCC11b]. Romanian [ETG16]. rona [LG13]. Roots [Shi18]. ROM [LCC11b]. Romanian [ETG16]. S \textsuperscript{\textdagger} [SYOL07]. S1 [LSG18a, LGS18b]. S4 [LSG18a, LGS18b]. Sample [SW23, SP05, WK08]. Sampling [MSAGHMNG19, JLC\textsuperscript{\textdagger}13]. Satisfaction [AM04, WT20, ZPW\textsuperscript{\textdagger}24]. Saudi [AHO19, AAS13, Alg20, KA19, Tig14]. Savart [Ma14]. Scaffold [IFL20]. Scaffolding [BFH19, BWK\textsuperscript{\textdagger}19, Kil18, KVB22, LCTK24, MBF13, RML22, TWC\textsuperscript{\textdagger}16, LHL\textsuperscript{\textdagger}12]. Scaolds [CHC16, DK18]. Scale [BMD\textsuperscript{\textdagger}17, Din18, Dud17, KR18b, KSL23, Lin17, MB21, SWAEKS19, TLK17, ZZV18, ALT\textsuperscript{\textdagger}07, CCG\textsuperscript{\textdagger}11, KBY11, NFK10, TS016]. Scaolds [SCDC21]. Scenarios [SLV22]. schema [GLSM11]. schemes [BC11]. Scholastic [TKS18]. School [AVT16, AYLW16, AGW24, AM04, Ari18, Ari24, AOJT22, AK17b, AAM20, AAM24, AB18, ABG06, Bal18, BJT23, Bea22, Bin20, BG22, CÖ20, CCL22, CC18, Cho21, DC16, DB17, DD23, Din18, DHTA\textsuperscript{\textdagger}24, Dog16, DO23, Eng17, EKB19, GT19, GR21, GAM22, GAMD24, Hil18, HLT22, HFBM24, HBP17, HGSL18, HHH\textsuperscript{\textdagger}23, Hsu19, JLO18, JMS16, JLL22, KAN20, Kan23, KK22a, KWO07, KB16a, KN22, KFM\textsuperscript{\textdagger}17, LAN20, LE06, LBP\textsuperscript{\textdagger}24, LLL01, LFF03, LWL\textsuperscript{\textdagger}20, Len06, LZL\textsuperscript{\textdagger}18, LYL23, Lin04, LLC\textsuperscript{\textdagger}16, LR08, LLL22, LDG20, Mad22, MH17, MSdSG17, MSAGHM19, MSGGVZDF20, MSAGHM22, MB20, MRDCC17, MFP\textsuperscript{\textdagger}21, MO17, NHLS08, NSH24, Ng10, hCN18, NF20, NPP16, ÖSY24, PT23, PL15, PSB19, PTW05, PDÜA21, PPC20, PA22, RH17, RTC22, Ram24, RGC08, RTM\textsuperscript{\textdagger}20, SEW18, SWDR20, STD\textsuperscript{\textdagger}23, SGCS23, SV22, SLK20]. School [SH24, SP17, Sha06, SS018, SWCH20, So03, Sum16a, Sum16b, SCC23, SMSBZ23, TL21, TC07, TKDD19, TT18, TSP16, TYC17, TSC17, TP1\textsuperscript{\textdagger}23, UM18, Ulu21, UFW17, VT07b, WL22, WT20, WO19, WAL23, WAL24, WS16, WHH08, XC21, XFH23, YMZ22, YKC18, YKUB17, YSHC23, YCL04, YWF20, ZZV18, ZPW\textsuperscript{\textdagger}24, vV16, AAS13, Bag11, BK13a, BS15, CWW11, CTGS15, CK14, CWZ23, DBS15, DMNH11, DJB15, EGN11, GN08, HBTP13, HK10, Jac12, Knu14, LS14, Lin14a, LTT09, LCC11b, MSK22, MS14, MMK11, MIJJ15, MP10, MMZ09, MG15a, MLK\textsuperscript{\textdagger}15, NY11, NN11, dFAN13, OdC15, ODC09, PPS12, PV14, Ped15, QM14, RCT\textsuperscript{\textdagger}11, RB13, RWW11, RVG15, Rut11, STC12, TBT\textsuperscript{\textdagger}10, TS016, TRF05, Uit14, VT07a, Wai14, WP12, WT15, Wel15, Yan14]. School-Related [RH17, LS14]. School-Type [SCC23]. Schooler [GD19, BSLM16]. Schooling [WM17, MRA10]. Schools
Schoolteacher [ALI23]. Science [LGS18a, LGS18b]. Science [APR17, AAA16, ABAH23, AHO19, Alg20, AMG16, AD16, AAF17, ALT+07, ALT14, AM04, Ano12a, Ano12b, ALI23, AKA18, ABH17, AO16, BdSSC16, BSG+23, BE16, BB09, BAN21, Bin20, Bla04, Bla09, BB19, CMM23, CRC22, CA24, CA21, CO18, Ceg21, CCCN17, CY21, CWH19, CCL22, Chi04, CYT16, Cho21, CGR17, CMP19, CFC22, Cor17, CT04, DS18, DC06, Das05, DCOK23, EDM15, EKC+21, EY23, ED23, FHL19, Fan21, FLP23, FHMuL18, Fun21, FL23, GS16, GPC23, GCG18, GC19, GC21, GSH+18, Gil04, GPCB15, GSO, GH07, GRWHP19, GJ21, HK19, HSM06, HTO19, HmYB07, HNMG16, HDR21, HC16a, HFV17, Hew04, HLT22, HP17, HHS+21, HY07, Hua06, HC16b, HCH16, HILAT16, HLO4, IAS17, IK18, IIED+23, Jaf20, Jia19, JSC24, JWR20, JLU+10, JLL20, KST+23]. Science [Kan23, KK22a, Khi23, KYA13b, KKE+17, KA19, KK22b, KS21, KEB21, KSE16, Kul18, KTC19, Ky06, LCA16, LF17, LBP+24, LJ20, LJP08, LFF03, LL05, LLW+20, Lrr07, Lou22, LZZ+18, LYL23, Lin14b, LEC+15, LLC+16, LW16, LL17, LWZ+24, LLHC23, LJC06, Ma23, MSS22, MNBZ+05, MHIS09, MSA17, MDF08, MVC17a, MVC17b, Mc03, MP10, Mg03, MW05, MJ18, MBBR08, MS18, MA21, MB20, MKS16, MC04, MN23, MAA05, MRC23, NACE22, NL16, OL08, OS05, ÖÖ23, PH19, PS017, PP08, PZA16, PSM+20, Pet22, PB09, QHS+20, Ram24, Ram06, RGC08, RAL+07, RBE21, Rol19, RV17, RH15, SIA23, SB21, SBS+07, Sch14, SG09, Se16, SC21, SCDC21, ST24, SAK24, SH24, SSS18, SS21, SCB16, SWCH20, So03, SZCL18, SGM15, CGH16, SS19, Str20, SWAEKS19, TK22, TL12, TWC+16]. Science [TLK22, TLK24, TAC19, TVC03, TC07, TYY+17, TPS21, Tsa06, TYC17, TA15, TSC17, TP+23, V06, Vid15, V16, VR23, VT07b, VC23, WB20, WL21, WL22, WC16, WT18, WL18, Wan20, WT20, WWM+24, Wat17, W019, WCC19, WS16, WSA07, WFK+16, WC09, WICC+18, Xn22, Yam18, YHL18, YKO19, YWC+18, YSI19b, YUG24, YCH04, YT07, YT22, YGW21, ZSW+21, ZBB22, ZT23, ZP06, rSY19, ATG13, Aie14, AAS13, AMBL16, Are12, AK13, AM14b, AAY15, AB14, BTY11, BW10, BL09, BMN16, BAV+11, BNH+15, BMO14, Bur10, CA14, CCG+11, CY14, CW23, Che11, CCW15, Chi12a, CGYK+16, CBO09, COC11, DFR06, DAO+11, DRT+12, DK10, Ebr12, Em09, FG14, FD12, GC10, GGD15b, Hal12, HCC15, HT13, Ho10, HTWT14, HEB11, HK10, HNB11, HPC+16, HYC+16, HJS+16, HSH16, HLO7, Hun14, IK14, Ing14]. Science [JLC08, JWXvD23, JLC+13, KGA+11, KB16b, KYA13c, KYJS12, KBY11, Kni10, KV10, Kuw13, KB14, LAMV12, LCC11a, LHL+12, Lin14a, Lin16b, LH15, LCI4a, LCI4b, LL14, LM12, LLL15, MMD11, Mel10, MDT13, MMZ09, MG15a, MG15b, Mor14, MPB01, NCH11, NRKR13, NEAC10, NF10, NN11, Oh14, Oli10, OEMZ12, PZLR16, PC13, RB13, RR11, RJHB12, RSPK14.
RR09, Rut11, Sch15, SOTF13, SYOL05, SYOL07, SIS+11, SWA+12, SC11, mS13, So16, SLES09, TOV12, TS016, Tig14, Tip10, TT14, TRF05, UKM11, VAF12, VRW05, VR12, VT07a, Wai14, WCT+12, WT15, WLJ14, YHT16, YL08, Zei15, ZKS+05, ZC15, ZB13, LAMV12, Lin16b, NOVRR22, science-based [FG14], Science-Methods [Ble09, BL09], Science-Oriented [MNBZH+05], science-related [LsL14], science-text [YHT16], Sciences [BSR24, Gov17, Ram24, SLC17], Scientific [AD16, BWK+19, BE16, BMD+17, CS16, CC05, Das05, DWM16, Din18, Dog21, DHTA+24, ELRW20, Fan21, Get23, Gov17, HP24, HCS18a, HCS18b, JYC21, KAK22, KP18, KB22, LOJ08, Lee18, Lin16a, LS24, LLL22, LCB21, M23, MSA17, NOVRR22, Pet22, PBDE23, SSK+23, TR21, TH18, VTV16, VCSA+23, VC23, WB20, WSA07, WSW+08, Yam18, YTHH22, YLTO21, YPF07b, YWF20, AB11, AB13, AMBLL16, ArDb23, BSL16, CTC14, CS15, KR18a, LCC+09, MLK+15, NSV13, OBE12, SC14, SLES09, YZK15], Scientist [HHS+21, Hsu19, Mor14, PBDE23, Sas21, AB14, DW15, SPF23], Scientists [CC14, KSL23, AB14, CTT+11, LNW22, MJM011], scope [Rut11].

Scoping [MN23], Scores [HILAT16, LM12], Scripts [CC16], sculpture [YHT16], Selected [ES04, ES09, LBP+24, WBB17, ZF06, BAV+11], Selection [LL21a, LC23, LD20, SWDR20, BHC10], Self [Shi21], Self-Concept [SCB16, YT07, MRLM21], Self-concepts [HBP17, Are12], Self-Determination [CIZ+23], Self-Diagnosis [Saf18], Self-Efficacy [AO16, DC06, Gao20, HZL22, HLT22, HHT21, Lau22, LLW+20, LZW+24, LJC08, LS23, MRLM21, MS18, MA21, NOVRR22, NHL808, NSH24, PS017, Saf18, SSK+23, SH24, SCB16, TL12, TAC19, TLR21, TH18, VHM22, WT20, YWC+18, YS19b, YT07, ZBB22, Arc12, Bag11, Bur10, CK11, Chi12a, HYC+16, JLC08, LM12, Pet13, Tig14, Uit14, VAF12], Self- [NSH24], self-enhancement.
self-perception [Tig14]. Self-Regulated

Self-Regulation [LZL18, PS017, TAC19, TLR21, CC16, YS19b, VAF12].


States [Bar17, RS24, TVC03, TCC+10, ZF06].

Statewide [Saw19].

Statistics [AkB21, LOJ08, LH15, Shi21, TT18, WK08, vDDDB22, CP12, LIT09].

Status [Saw19].

Statistical [AkB21, LOJ08, LH15, Shi21, TT18, WK08, vDDDB22, CP12, LIT09].

Statistics [AK20, BOL23, CC16, Wat17, Yan14].

Status [KC22, KB16a, Kot16, Lee21b].

Stereotype [TPM19].

Stereotypes [AKHT23].

Stickers [KKE+17].

Stereotypical [RT10].

Stimulated [SL20].

Stochastics [RCC22].

Stoichiometry [HmYB07, DC08].

Stories [LCB21].

Story [AM14a, HPP09].

Storytelling [SWYS24].

Straightforward [KL23b].

Strategic [AT07, AOZ09, Ala16, AFG21, ABP16, Ari18, Ari24, Ben22, BBH20, FCS15, GD19, HmYB07, HFBM24, JC10, Lex16b, LZL+18, PL19a, PSB19, TVC03, WSA07, YRR09, Al12, BC11, Ehr12, Gok15, Hal12, KAC15, LT11, Oh11, SBK+14].

Strategy [BRR+22, JSH+23, LB08, ÖÖ23, SRSD23, CKH15, GN08].

Strengthening [Hsi13].

Strengths [BSD13].

Stress [HSMO06].

Stressful [HSMO06].

Striving [Lit10].

Strong [HTCS19].

Structural [DGEP16, FCS15, JCC20, KGM24, PMCG+17, YWF20, JLC+13, PPS12, VA12].

Structure [CGR13, EA19, MSdSGG17, Pit23, TWC+16, TYW+17, AM14b, Che11, KN13, LY13, NFB+15, Oli10, TSP12, WLSN14].

Structured [LB08, SCiB22, Can14].

Structures [DIBS22, EkB19, SF22, GLSM11, THV+15].

Structuring [CB16, Nis17].

Student [AT07, ASR19, AGB17, AOZ09, AB11, AHO19, AFG21, AKHT23, AYLW16, ALT+07, ABH17, AE15, AWL16, AB18, AÖC10, AKD+19, BKW+19, BB09, BÖL23, Bi106, BRR+22, BPKM24, BCO22, BF23, BCC06, CCW16, CO20, CdHD16, CA21, CS16, CK06, CK22, CT18, Che12, CCL22, CIZ+23, CH20, CGR17, Cov18, CIBP23, DC06, DC16, DVA15, DN17, DAM19, DK18, DÇOK23, DWM16, DRT+12, DL22, DO23, EN08, ELRW20, EK18, ED23, EG17, FB19, FTWC18, FLP23, FH12, GR21, GDFVM24, GSO+17, HC23, HC24, HP21, HHH22, HP24, HbK19, HmYB07, HE17, HKS18, HLT22, HFBM24, HGSL18, HHS+21, HHH+23, HASR24, HMS16, Hsu19, HLT18, HSH22, HCH16, IAS17, IK18, IFL20, JC17, JLO18, JSS17, JCC20, JML21, JSH+23, JHWW16, JSH+19, JSRP20, Jon19, KST+23, KR18a, KAK+20].

Student [KWO07, KYA13b, KB21, KA19, jK19, KKL20, KK22b, Kim22, KÇ18, KK23,
KH06, Kul18, LCA16, LE06, LBP+24, LJ20, LSW19, LL06, LFF03, Lee16b, Lee18, LLW+20, LM21, LP23, Len06, LTCCY07, Lin04, Lin16a, LLC+16, LL17, LC23, LWZ+24, Lin17, Liu05, LR08, LH08, LLI22, LDG20, Mad22, MH17, MCF23, MSaSGG17, MRLM21, MKSK16, MRDDC17, MFG+21, NSH24, Ng10, NLW16, hCN18, Ng20, NA24, NFB+15, NK04, OS05, Oro16, OBH17, ÖSY24, PS07, PP08, PP15, PZA16, PUR18, PN04, PTW05, PBDE23, PRW+07, Fit15, PCL18, PD17, PB09, RCT22, RSPK14, RH23, SPF23, SR21, SEW18, SWDR20, Saw19, SL20, Sch14, SLK20, SMKP+19, SKS+23, SAK24, SLC17, SCSK19, Shi21, SLCK19, SA16, SWCH20, SZCL18, SJL20, SF05, SRS23, Str20, Su08, SWAEKS19, Sum16a, SK23. Student

[SCC23, THAD20, TT07, TH19, TLT21, TAC19, TB17, TY23, Tay18, TCH+17, TWS+23, Tur22, UFW17, VRW05, Vid15, WSZ23, Wan07, WL08, WC16, WT18, WT20, WWM+24, WK09, Wil20a, Wil20b, XFT21, Xu22, YHL18, YS19a, YS21, YKC18, YSHC23, YS19b, YS21, YST07, Yor23, YCL04, YY13, YWF20, YJY08, vV16, vKF22, ARZRV16, AAMU+14, AR10, AM14a, AW12, AE16, APCK12, BZST10, Bag11, BHS15, BS15, ÇAC09, ÇTC14, CSM12, CPMSW11, CW11, CK14, CWZ23, CDT+11, CYK+16, CBDV10, DC08, DFS23, DMNH11, Ebr12, ES16, GS12, GN08, Gok12, Gok15, GS13, HBP13, HCC15, HL13, Ing14, JLC12, JWVx23, KY13a, KST09, KB16b, KYA13c, KKvdW15, Kuw13, LM15, Lep12, Lin06, LHL+09, Lin14b, Lin16b, Lin09, LLT09, LS14, LM12, MS14, MMK11, Mod12, MIR15, MJMOR11]. student

[MPB10, MMV16, MR14, NPR12, OL14, OD09, PPS12, PC13, PSMK+12, RK10, RCT+11, RJHB12, RYG15, RT10, RUT11, SKA11, SMFL15, SWA+12, STC12, SG15, SBL+14, SW14, TSA12, TCC+10, TC09, TSP12, Uit14, VAF12, VR12, WLSN14, WCT+12, WLJ14, Wls15, WMP+12, YHT15, YFL15, ZC15].

Student-Centered [MH17]. Student-led [BB09]. Student-teacher

[BB09]. Student-with-GeoGebra [JC17]. Students

[ABAHA23, AGW24, AAM20, AAM24, Bea22, BW+24, CM23, Ceg21, CC18, CMP19, DBV22, DD23, Din18, DLD18, FMOM16, Gao20, GSJ+17, GHL22, Hil18, HD+21, HILAT16, HL04, IA08, KD09, KP18, KRS23, KNF+20, LAA+23, LJ16, LZL+18, LC23, LS23, MNZBH+05, Miy08, MO23, NJ24, NA€CE22, NHL508, NP23, Nis17, ODT07, PT23, PFQ+18, PPCC20, Pri23, RG008, RH19, SHM21, SD16, SV08, SS18, SBM12, SC21, Sha06, SRS23, SS19, SK23, TRL21, UM18, VB20, VCSA+23, WL18, WM19, WFWK23, XC21, Yn03, YLO7, YC23, ZBL+16, ZYJ22, ZK20, AC15, Als12, AMBL16, AK13, AU15, BSA+14, BRMNH15, CCT+11, CLY10, CC14, CCW15, CEB12, CJOC11, DAO+11, DL12, EDS10, IK14, JC10, JW15, JLU+10, KV10, LNW22, LLVS13, LG13, MLK+15, NEAC10]. students

[OBF15, ODc15, Ped15, RR16, SY14, SC11, TSO16, Tig14, WWTC10, WT15, WKL23, Y1k14, Ze15, ZS11]. Studies

[ERC03, GHP07, LSW19, DVV15, Hsi13, HYY+16, LES09, WCY16, YL08]. Study

[APR+17, AGW24, BFH19, Ber19, BBT17, BAN21, BC05, CT17, CL20, CABR06, CT04, DNV17, FF23, Gao20, GG09, GRWHP19, HNMGA16,
HHH$^+$23, HHS24, IV24, JRWB23, Jia19, JSH$^+$23, JHWW16, KBK$^+$22, Khi23, KYA13b, KL18b, KRU19, KH06, KW23, LSW19, LB08, LM21, Lec21a, LKL20, NKR$^+$18, Orok16, PPB18, PZA16, PN04, PRW$^+$07, PPCC20, QCH23, QVST17, Sap13, SMPK$^+$19, SC21, SML24, SE22, ST24, SA16, Str20, SMSB23, TSMW16, TLHV16a, TLHV16b, VC17, VCSA$^+$23, WB20, Wan07, WL08, XFH23, Yan03, YalL08, YHL18, YKKB19, YTHH22, YYC04, YC04, ALA$^+$15, AB14, BSA$^+$14, BPG11, BW10, BC11, CTC14, Cha10, CL10, CCN$^+$12, DW15, DRT$^+$12, EDS10, ETG16, FD12, HFWY14, HY05, JC10, Kau11, KYA13c, KYJS12, KK16, LCC$^+$09, LCC11b, ME13, MMP14, MR14, OS10, OdC15, OD09, PZLR16. study [PV14, PMLC15, RJHB12, RL12, RT10, Rut11, So16, Tan11, TOV12, TDBLY16, Top13, TCC$^+$10, VTCvS14, WKL23, Yan14, YHT16, ZS11, vA06, NvKR$^+$18].

Studying [Saf18, TRF05, SY14]. Style [CL20, HP21, LLL22]. Styles [YSHC23, CA14, WT15]. Sub [BLS20]. Sub-Saharan [BLS20].


submicroscopic [RK10]. subtask [Per20]. subtraction [OO12]. Success [AN18, CKH15, LM21, RVTV20, PSC$^+$13]. Successes [BAN21, ACY10].


supportive [BK13a]. Supports [RTM$^+$20]. Surface [AFG21, BHV$^+$24]. Survey [Din18, IAS17, SWAEKS19, ZVV18, MR14, RSPK14, LAMV12].


symbiosis [Lai13]. Symbolic [RTB20, WLSL14]. Symbols [YL22].


T [VT07a]. Tables [Sha06]. Tacit [FB06]. Tacit-explicit [FB06]. Tagging [OC21]. Taiwan [CLY10, CCN$^+$12, FF23, GBC21, GBC24, HL13, JC24, KYA13b, KYA13c, Las13, LCC$^+$16, LJC08, LL22, WL22, WT15, WO19, WICC$^+$18, Yal03, YRR09, ZBL$^+$16]. Taiwanese [AMBLL16, CT18, Chi12b, Cho21, Hsi13, HW13, HpCH$^+$16, HYL23, HY05, JLCT12, JLC$^+$13, LY10, Lee18, LW16, Lin05, WL18, WT20, Wan14, YCL04].

Talk-Moves [THAD20].  Talking [EGJ09, CC14, Kot10].  Task [ANLL21, BML24, CIBP23, GD19, JSS17, KJ19, LHY24, KA18a, PL19b, PEQS24, RS24, SCDC21].  Tasks [AWL16, BJ2T23, BRSG20, BB19, BG22, CJ17, Dah17, DB23, GCT24, HCT04, KRV+22, LLP19, Lem21, MAA05, PSB19, PN18, RS24, Ron18, RH19, SL20, SKS+23, Tay18, TTT18, Yeol17a, Yeol17b, YCZ13, ZG08, Bab10, Bay13, Bes11a, Bes11b, EVV11, LM15, SY14].

tasks* [Lin06].  taught [DCFC16, EE11, MMZ09].  Taxonomy [WO19].

Teach [AO16, El 23, SY22, TNHK23, WM19, IK14].  Teacher [AVM16, APR+17, AHO19, AMG16, Ama20, AAF17, Ari18, Ari19, AK20, Ari24, AOJT22, ANLL21, AO16, B18, BSG+23, BKM24, BE16, BML24, BOL23, Bla04, BKC15, BHD+15, BCV21, BL21, BWO20, CW06, CAC07.  CPTMS22, CCW16, CD23, CRC22, CO18, CY21, Chi04, CGR17, CGTQ21, CG022, CG22, CBGB23, Cor18, Cor17, CT04, CRB21, DHB19, DB17, DNWC18, DJB15, EP21, EkB19, ES08, ED23, ELC24, FF23, FLP23, FI19, GCCG18, GC19, GC21, GB22, Get3, Gov17, HSM06, HjK12, HHJR21, HSS10, HC24, HlK22, HLZ21, HC16a, HFVH17, HK18, HLY12, HSH22, HCS18a, HCS18b, IAS17, IK18, IED+23, JLI0, JLO18, Jaf20, Jao17, JRWB23, JSRP20, JLL20, KBH+15, KL18a, KC13, KEC23, KB16a, Kl18, KK19, KMH20, KS19, KOH15, KRS23, KBK15, KEB21, KG24, LNP+18, LAN20, LRT20, LST22, LSW19, LBF24, LFF03, LL05, LL19, LL20, Lee21a, LL21a, LL21b, LHY24, LTM18, Leu22, LE22, LCTK24, LTCC07, LSK18, LW16, LJC08, LdC21, LTD+18, LGD20, LK18b, MK23, MHS09, MSAGHMG19, MSGVZ20, MDDB12, McG03, MM05, MBBR08, MA21, MB20, MKSK16, MAA05, MFG+21, MO07, NK+18, NPT17, NHC17, OHLC23, OQ08, PSO17, PL19a, PEK+23, PUR18, PL19b, PN04, Pet22, PBDE23, PFCM23, PA22, QCH23, RTC22, RML22, RAL+07, RBE21, Rot20, RH15, RH19, RH23, RCC22, SCG+19, SPF23, SR21, SB22, SMG+19, SCiB22, SEA16, SC21, SML24, SE22, SH24, SAA11, Sh12, Shi22, SL21, SJJ120, SM16, Sum16a, Sum16b, SP21, THAD20, TK22, TB12, TAY18, TC07].  Teacher [THC+17, TSKIB22, TKDD19, TWS+23, TPS21, THNK23, TA15, Ulu21, VM22, VA21, WM17, WJ07, Wan20, WWM+24, WCC19, WBM21, WKG20, WHHO8, WHC17, WCC+18, XC21, YZK15, Yam18, YKB21, YKUIB17, YS19b, YUG24, YW21, ZZ16, ZSW+21, ZZV18, rSY19, AV06, AH11, AAMU+14, AAS13, Ama16, AW12, Bag11, BB09, BW10, BSD13, BK13b, Bur10, CTC14, CG13, Ch10, CVCV11, CCN12, CB009, DS15, Ded15, DW15, EE11, ELY15, EDMA15, Eme09, GLY09, HBT13, HT13, HOB13, HK10, JLC08, Jac12, KHL12, KGA+11, KB17, KO10, KO13, KN13, KSE16, KB14, Las13, Lee16a, LGI3, Lin11, LCC+09, Lin06, LCC11a, Lin14a, MNE12, ME13, MIJJ15, MG15a, MG15b, Mor14, NY11, NN11, OB15, Oli10, Ols07,
OEMZ12, QM14, RRW11, RL12, RCG+11, SMFL15, Šap13, SC14]. teacher
[TBT+10, TDBLY16, Top13, VTCvS14, Wai14, WMS13, Yan14, ZKS+05,
ZC15, ZB13, NvKR+18]. Teacher-Directed [SJL20]. teacher-generated
[NY11]. teacher-researchers [KB14]. Teachers
[AAA16, Ala16, ABPD16, AD16, AM04, Bay09, BV24, BR19, Bro22,
BSR24, BG22, ÇP17, Che08, DIRTBP24, Dog16, DK16, EKC+21, EH18,
ERC03, EL008, Get23, GYU24, GPCB15, Gu16, HTCS19, HKSL22, HM09,
HCBZ03, HL04, KR18b, Kot16, KEB21, LHC17, LTT+19, Len22, Lin05b,
Lin16a, Lin17, LKI20, MDF08, MSAGHM22, MS18, MRC23, OE19, ÔÔ23,
PP08, PSB19, PDÜ21, QCH23, RJ21, Ron20, SC03, SIA23, SV22, SML24,
SY22, SW23, Sty08, SP21b, TYC17, VA21, VBACCG22, WSA07, WSW+08,
WICC+18, XC21, YMZ22, YR09, YKKB19, ZPW+24, BW10, BK13a,
BAY+11, CA14, CKH15, CMME15, DFR06, Ded11, DK15, ELY15, GGD15b,
HHW13, KST09, KIR12, KBY11, KAC15, LCC11a, Maj14, MSK22, OS10,
Oh14, RRW11, WT13, ZKS+05]. Teaching [AOZ09, APR+17, AAAB16,
AMFC21, AAF17, AGW24, AK17b, BLS20, BdSSC16, BKM24, BAN21,
Bla04, BL21, Bro22, CW06, CY23, CRC22, CO18, CCCN17, CP12, Chi09,
CMP19, CT04, Duf17, EH18, Fun21, Gal22, GGD15a, HNMGA16, HHJR21,
HNA16, HE17, HM09, HFVM17, Hob13, HFWM24, HMS16, Jao17, JLC17,
KWO07, KB16a, KLI15, KBBK15, Koy23, LL23, Lan22, LBF24, LL05, Len22,
LP11, Lin05b, LW16, LL17, LJC08, LTD+18, MSS22, MVC17b, McG03,
MBRR08, MS18, MA21, MO23, NOVRR22, NP23, NA24, PL19a, PEK+23,
PYR+12, Ran06, RH15, SIA23, SGCS23, SS18, SMPK+19, SG09, SD22,
SH24, Shi22, SY22, SLES09, SLZ+18, SP21b, TSMW16, TKDD19, TNHK23,
VSW20, VBACCG22, WL08, WCC19, WAL23, WAL24, WICC+18, XC21,
YZK15, Yan03, YSHC23, YUG24, ZBB22, ZBH23, ZPW+24]. Teaching
[ZBE21, ATG13, AV06, Aky16, AAMU+14, AAS13, BPG11, BEF15, BK13a,
BMN, Bur10, CBO09, Ded15, DW15, EGN11, EK09, FID12, FNW24,
HTBP13, Hal12, HK10, HHW13, JLC10, JLL+10, KG15, KLI+13, KN13,
MW09, Maj14, ME13, MS14, NKR13, NEAC10, QM14, Šap13, SC14, TRF05].
Teams [GJ21]. techno [Per20]. technique [KJA+13]. techniques
[LH15, Pap10]. Techno [JC17, vdWBD17]. Techno-Mathematical
[JC17, vdWBD17]. Technological
[Koh19, SHM21, YJY08, Aky16, DS15, GCK15]. Technologies
[GGD15a, RG08, Su08, ZZ09]. Technology
[ALT14, BC05, ÇP17, CCCN17, CT04, DFR06, DA20a, DA20b, EB20,
HCH16, JC17, LW16, Ng19, SC03, Wai14, WHH08, WCG09, HCC15, HIS+16,
HISH16, KAC15, RSPK14, SIS+11, VB20]. Technology-Aided [CP17].
Technology-Enhanced [ALT14]. technology-infused [HIS+16, HISH16].
Technology-integrated [WCG09]. Technology-Mediated [Ng19]. TEDS
Temperature [BF19, YLTO21]. Ten [KP18]. tendency [Bab10]. Tensions
[HT13, LR20]. Term [BHWM20, CTC16, SW23, TOV12]. Terms
[MSdSGG17, SF05]. Tertiary
tertiary-level [AAF12]. Test [ABAHA23, AK20, BE17, GG09, IIE+23, KS21, LL06, Lin04, LLM+16, LS24, SP05, SMSBZ23, TK22, TWD+17, YS21, YCH04, AU15, DL12, OEMZ12, WCT+12]. Test-Taking [ABAHA23].

Testing [Bra12, LOJ08, MQ07, TMS22].

Tests [ABAHA23, SWA+12, GS16, Jol16].

Text [ABAHA23, SWA+12, GS16, Jol16].

Testing [Bra12, LOJ08, MQ07, TMS22].

Tests [ABAHA23, SWA+12, GS16, Jol16].

Text [ABAHA23, SWA+12, GS16, Jol16].

Testing [Bra12, LOJ08, MQ07, TMS22].

Tests [ABAHA23, SWA+12, GS16, Jol16].

Text [ABAHA23, SWA+12, GS16, Jol16].

U.S. [AMBLL16, CW06, HL04, LS14]. Ultra [EHM19]. Ultra-Orthodox [EHM19]. Un-cover [HK18]. Uncertain [RH15]. Uncertainties [CT17, EK18, PH18]. Uncovering [RGC08]. Undergraduate [AL22, BWM+24, CMM23, CT17, CIBP23, Das05, GDFVCM24, HHS+21, HASR24, HMC19, IV24, KK23, LWZ+24, LS14, LS23, MN23, PRW+07, TLK17, Yor23, AU15, BHS15, Lep12, Lin14b, Lin16b, Mor09a, Mor09b, Pet13, SC11]. Undergraduates [KL23b]. underlying [BC11, Chi12a, GLSM11]. Undermine [JLC17]. Underrepresented [Ceg21]. Understand [KP18, DBS15, KST09, MRA10, Mor09a, Mor09b]. Understanding [AT07, AKHT23, AS22, Ari19, AK20, AOJT22, Bal18, Bil06, ÇAC07, Das05,
Understandings

**Unexpected** [CBR21, SRSD23, Fos15]. **Unit** [BWK+19, CA21, LB08, AAV15, DFR06, NPR12], **United** [PZA16, ZF06]. **Units** [CGÖ22, MRC23, OC08]. **Universal** [Kaz14, SBT+06]. **Universality** [Myi08]. **Universe** [Gov17, Liu05]. **Universities** [MW09]. **University** [AK17b, BF23, Din18, EK18, GS12, KRU19, MMM05, Mor09a, Mor09b, RH17, SHM21, SBR22, SD16, Su08, Vid15, WMP+12, YY13, BHS15, Maj14, NEAC10, RR16, RJJH12, SVME15, TDBLY16, YHT16, GR21, RS24].

**Unknown** [SGCA18]. **Unpack** [KWMW22]. **Unpacking** [LC23]. **Unravelling** [WAL23, WAL24]. **upmap** [RHM+11]. **upon** [WLSN14]. **Upper** [AD16, BS15, CRG17, HHJR21, KŠC20, Sum16a, Sum16b, VB20, VCSA+23, VT07a, VT07b, Bag11, EGN11, Ped15, RT10, Uit14]. **Upper-Primary** [VB20]. **Upper-Secondary** [HHJR21, Uit14]. **urban** [Kuw13, PV14]. **USA** [GGD15b, HEB11]. **Use** [APR+17, AMG16, AGW24, AL22, BKW+19, BTJA18, BWO20, BCC06, CPTMSM22, CO22, Dah17, DIRTBP24, DKL16, DJE17, DO23, EI 23, EK18, GC21, GHS+18, HC23, HC24, HP24, JLO18, KK23, LJ20, Lee16b, LLN 21, LR08, MHIS09, NvKR+18, NKR+18, OE19, PT23, Ron20, Son22, UFW17, YL22, Bab10, CEB12, Din14, DDG+12, GGSP10, KV10, Maj14, RSPK14, RVG15, SKA11]. **Used** [Ala16, DB17, Hon23, PPFC+18, PC22, YRR09, Als12]. **usefulness** [CDT+11, LCC11a]. **Using** [ALT+07, AMBLL16, ABM24, BHSC10, BE16, BHA+23, BRR+22, BPMK24, Bro22, CA24, CY21, Che14, CIZ+23, Dah17, Dog16, EFL+13, EY23, FGD22, FT05, GPC23, GPCB15, HbK19, HM22, HLY3, HML22, JCC20, KMS16, KS21, KNF+20, LR20, LS21, LL05, LLP19, Lin05b, MJMOR11, Ng19, Oh11, OEMZ12, Rtu11, SML24, SCSK19, SWYS24, SWEKS19, SP21b, SMSB23, TH19, TC09, TKS18, VR12, WLJ14, WL23, WAL24, AAF12, BSA+14, CMME15, Ful15, HNB11, HYC+16, JSP15, Lin06, LS14, LTT09, NPR12, PZLR16, WOR12, L1J16]. **utilising** [CP12]. **Utilization** [Ols18]. **utilized** [LH15]. **Utilizing** [PSM+20, WMS13]. **Utrecht** [RL19].

**Vaccination** [KGM24]. **Valid** [DB17]. **validate** [WLJ14]. **Validating** [AMFC21, Ful15, SCS+12]. **Validation** [AEP22, BMD+17, HZL22, HMM22,
IAS17, JRWB23, JSC24, KKS+19, KSL23, LS24, STD+23, SCDC21, SLL+20, TDW+17, Wan04, WC16, YHL18, AU15, CMME15, Ded11, GGSP10, HpCH+16, LAMV12, MSH10, RSPK14, SOTF13, TS016. **Validity** [Oro16, YCL04, Per20]. **Valuations** [GCCCG18]. **Value** [CIBP23, HCH16, JLC17, KL23a, SCDC21, ZBL+16, Web13]. **Valued** [HHM20]. **Values** [CT17, LPK24, Leu05, RS24, Ded11, KIR12, PC13]. **Variability** [KK23]. **Variable** [Ble09, BL09]. **Variables** [AWL16, Dog16, ES04, ES09, LBP+24, RH17, SP05, ST05, BNH+15, MMP14, TSP12]. **Variation** [GSO+17, VWH+17, WK08, WFWK23]. **Various** [HMC19]. **Vary** [RCC22]. **vehicle** [BMN16]. **Verbal** [LAA+23, TBT+10, THAD20, BSLM16]. **Verification** [LLC+16]. **Version** [LH16]. **Versus** [BB17, FD12]. **via** [KJC18, NACE22]. **Video** [BKC15, CY21, DJB15, GPCM15, HJKK23, KBH+15, KLH15, LJC08, LLL22, PBDE23, RL+07, SC03, SMG+19, AE10, AB14, CDT+11, JLC08, LCC+09, SB09, WMP+12, DKL16, KSL23]. **Vignettes** [KLH15]. **Village** [PTW05]. **Virtual** [KVB22, LBF24, VVR24, WT18, WAL23, WAL24, LY10, SLW10, WMS13]. **Vision** [NF20, SGHM15, SGHM16]. **visits** [MG15a]. **Visual** [AGW24, LCTK24, SLK20, WS16]. **Visualization** [CT18, WSA07, AT15, OZD10]. **visualizations** [RT10]. **Visualizing** [TYW+17]. **visuospatial** [Ozd10]. **vividness** [AB13]. **Vlaardingerbroek** [VT07a]. **Vocabulary** [Sch14, WK08, FG14]. **Voice** [Mer07, OC21, KSE16]. **Voices** [KB21, MWM05]. **Volcanic** [LLP+24]. **Volcano** [LB08]. **Voltaic** [RTC22]. **Volume** [PPB18, SA16]. **vs** [HBP17, SY14]. **VSRoSE** [KSL23]. w [Lui13]. **Wales** [TC07]. **Wandering** [ABAHA23]. **Want** [BRR+22]. **Want-Learn** [BRR+22]. **Wanted** [GR21]. **War** [PP19, SF22]. **warming** [CDT+11]. **Warrant** [WJ07]. **was** [SC11]. **Wasn’t** [GR21, SC11]. **Water** [KC18]. **wave** [EFL+13]. **Way** [AVM16]. **Ways** [GFFV23, HTCS19, WFWK23, FH12]. **weaknesses** [BSD13]. **Web** [Own06, Own10]. **Web-Based** [Own06, Own10]. **Website** [TYC17]. **Weighing** [Mea07]. **Weight** [HA07, SG15]. **Well** [YKC18, ZK20, WKL23, YUG24]. **Well-Being** [YKC18]. **Wellbeing** [BWM+24]. **Western** [BSD13, Kuw13, THV+15]. **Where** [CMME15, Ky06, LY13]. **Which** [HGSL18, JSH+23, MSAGHM22, MF05, RH17, WFWK23, vdWBD17, DCFC16, LH08, RTM+20, KR19]. **While** [ABAHA23, ANLL21, LCA16, SD22, YUG24, KTBG15, MMM11]. **Who**
REFERENCES


Xhosa [Web13].

Year [CABR06, Dah17, DC06, DAM19, HmYB07, HNMGA16, JCC20, LJ16, PEK+23, SS19, Vi15, Ac15, BFE15, BW10, CTGS15, Evv11, Mr14, Neac10, Rr16, RCG+11]. Years [FMOMG16, KRS23, RTC22]. Young [HM22, Jia19, LH08, Pit23, SBN16, SK23, WFWK23, Fer14, RR11, RR09, SBN14, THV+15, PPB18]. You're [LDCCK21]. Youth [QHS+20]. YouTube [BHv+24].

Zealand [VT07a, BC05, HP11, Kya13b, Kya13c, VT07b, YJY08]. zero [Mas15]. Zone [LR20, WLSC09].

References


[AAF12] Ernest Afari, Jill M. Aldridge, and Barry J. Fraser. Effectiveness of using games in tertiary-level mathematics


Alghamdi:2013:SES


Ayar:2015:ASA


Al-Balushi:2011:SEC


Al-Balushi:2013:RBL


Aydeniz:2014:WDS


REFERENCES


REFERENCES


**Alshamali:2016:SRR**


**Ayalon:2010:MEV**


**Ayalon:2015:SOE**


**Ayalon:2016:FSS**


**Arikan:2022:DVS**

Serkan Arikan, Emine Erktin, and Melek Pesen. Development and validation of a STEM competencies assess-
Albarracin:2021:RCC


Adu-Gyamfi:2014:PRR


Adu-Gyamfi:2017:SCB


Anam:2024:UCT

Akkus:2011:ETS


Albadi:2019:RRS


Almukhambetova:2024:CFL


Areepattamannil:2013:FPS


Asghari:2017:MAO

A

Attorps:2017:SUA


Arican:2020:DPT


AsokaDeSilva:2018:DDD


Aksoy:2021:SGS


Ayene:2019:HPP

Mengesha Ayene, Jeanne Krick, Baylie Damitie, Ake Ingerman, and Bath Thacker. A holistic picture of physics stu-

**Almukhambetova:2023:HBL**


**Akyuz:2016:MPT**


**Anastasakis:2022:TUP**


**Andra:2015:RMR**


Anderson:2007:ULS


Anderson:2014:NPS


Annetta:2004:ASP


Ambrose:2014:SEB


Ariasi:2014:CPO

[AM14b] Nicola Ariasi and Lucia Mason. From covert processes to overt outcomes of refutation text reading: the inter-

**Amador:2016:PNP**


**Amador:2020:TLM**


**Antink-Meyer:2016:USC**


**Alsina:2021:VIE**


Anonymous:2003:E


Anonymous:2003:IAa


Anonymous:2003:IAb


Anonymous:2004:IAa


Anonymous:2004:IAb


Anonymous:2012:IJSa


Anonymous:2012:IJSb

REFERENCES

Anon:2012:CP

Anonymous:2012:ISI

Anonymous:2013:CPI

Aydeniz:2016:AEP

Ayas:2010:SCP


Aslan-Tutak:2015:EOB


Abrams:2013:CCR


Almukhambetova:2023:FLP


Aydin:2015:TAD


Agudelo-Valderrama:2006:GGB

Cecilia Agudelo-Valderrama. The growing gap between Colombian education policy, official claims and classroom realities: insights from mathematics teachers’ conceptions of


Barahmand:2017:BBF


Boone:2011:ESP


Bayraktar:2009:MTP


Bayazit:2013:QTN


Bencze:2009:STD


[Berg:2017:FEE]

[Brown:2019:PDT]

[Babai:2006:IIP]

[Berti:2017:TGC]

[Boublil:2024:DIE]
Shachar Boublil, David Blair, and David F. Treagust. Design and implementation of an Einsteinian energy learning mod-
REFERENCES


REFERENCES


REFERENCES


REFERENCES

Baranovich:2019:PSM

Bergeron:2017:ESP

Burgos:2022:AEA

Boferding:2023:UIW

Blomeke:2015:TCD
Sigrid Blömeke, Jessica Hoth, Martina Döhrmann, Andreas Busse, Gabriele Kaiser, and Johannes König. Teacher change


Bitzenbauer:2024:ERB


Biza:2020:GSF


Bilgin:2006:PPS


Bindis:2020:LSO


BouJaoude:2010:IPM

[BJ10] Saouma B. BouJaoude and Murad E. Jurdak. Integrating physics and math through microcomputer-based laboratories (MBL): effects on discourse type, quality, and math-


Bastian:2024:LBE


Bleicher:2009:EVR


Bosser:2021:TCD


Black:2004:STE


Bleicher:2009:VRA

Robert E. Bleicher. Variable relationships among different science learners in elementary science-methods courses.


Bib:2023:TNS


Berenwinkel:2011:CCT


Boubonari:2024:CGP


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[BZST10] Reuven Babai, Hanna Zilber, Ruth Stavy, and Dina Tirosh. The effect of intervention on accuracy of students’ responses
REFERENCES


REFERENCES


REFERENCES

Chang:2011:DCS

Chen:2022:HSR

Chen:2012:EGM

Chang:2016:CMR
REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Chou:2021:RGI


Crippen:2023:UES


Chiu:2023:USD


Cai:2017:APP

REFERENCES


REFERENCES


Kai S. Cortina, Kevin F. Miller, Ryan McKenzie, and Alanna Epstein. Where low and high inference data converge: validation of class assessment of mathematics instruction using

[Chu2019:TFD]


[Cebesoy2018:GLI]


[Can2020:EFG]


[Cusi2022:DCD]


Callejo:2022:ULM


Capobianco:2022:FPE


Cross:2009:COM


Chen:2009:ALE


Chen:2015:ESI

Chun-Ting Chen and Hsiao-Ching She. The effectiveness of scientific inquiry with/without integration of scientific reasoning. *International Journal of Science and
REFERENCES


[Ceglie:2016:CSP]

[CSM12]

[CT04]

[CT17]

[CT18]
Hsin-Yi Chang and Shi-Fang Tzeng. Investigating Taiwanese students’ visualization competence of matter at the par-


Chen:2011:ICT


Cai:2006:UCT


Chen:2019:BGG


Changeiywo:2011:ISM


Chen:2023:EHS


REFERENCES

Chen:2023:DCS


Chin:2016:ASC


Dogruer:2020:CMP


Dogruer:2020:MPE


Dahl:2017:FYN

Bettina Dahl. First-year non–STEM majors’ use of definitions to solve calculus tasks: Benefits of using concept im-
REFERENCES


**DeWitt:2019:YOS**


**DeWitt:2011:HAL**


**Dass:2005:UNS**


**Demiray:2017:IPS**

REFERENCES


Chelsey Dankenbring and Brenda M. Capobianco. Examining elementary school students’ mental models of Sun–Earth...

[Duncan:2016:ILP]


[Deprem:2023:EAB]


[Deslis:2023:DAM]


[Doorman:2012:TUD]

REFERENCES


[dFAN13] Emilia Z. de F. Afonso Nhalevilo. Rethinking the history of inclusion of iks in school curricula: endeavoring

**Dawson:2006:ICT**


**DiMartino:2019:MCS**


**Delitianni:2016:RFP**


**Dhindsa:2018:ADP**


[Din14] Lin Ding. Long live traditional textbook problems!? — Constraints on faculty use of research-based problems in introductory courses. *International Journal of Science and Mathematics Education*, 12(1):123–144, February 2014. CODEN ????. ISSN 1571-0068 (print), 1573-1774 (elec-
REFERENCES


Lin Ding, Zehao Jia, and Ping Zhang. From learning capacitance to making capacitors: the missing critical sense-
REFERENCES


[DL12] Carmel M. Diezmann and Tom Lowrie. Learning to think spatially: what do students ‘see’ in numeracy test items? *In-
REFERENCES


Dolma:2018:IAB


Dundar:2023:HSS


Dogan:2012:ECP


Dogbey:2016:UVS


Dogan:2021:MDR

REFERENCES

Dana-Picard:2007:MCP


Dana-Picard:2008:EPS


Dionne:2012:SSM


Delgado-Rebolledo:2020:RBK


Daher:2015:PST

REFERENCES

Daher:2018:DPC


Dudu:2017:FSS


DeBoc:2015:SUP


Diezmann:2015:KBS


Ding:2016:DHE

Eilam:2019:COS

Edsand:2020:IEE

Ebrahim:2012:ECL

Estapa:2023:PTI
El-Deghaidy:2015:STT


Edmondston:2010:SPC


Eisenmann:2011:ETA


Enghag:2013:UDD


Eymur:2017:CCL

REFERENCES


[Sibe21] Sibel Erduran, Ebru Kaya, Aysegul Cilekrenkli, Selin Akgun, and Busra Aksoz. Perceptions of nature of science emerging
REFERENCES


ElMouhayar:2021:IQC


ElMouhayar:2022:RLP


ElMouhayar:2023:UTD


Ezaki:2024:TKF


REFERENCES


[ERC03] Ruhama Even, Naomi Robinson, and Miriam Carmeli. The work of providers of professional development for teachers of mathematics: Two case studies of experienced practitioners.
Erdem:2017:EMC


Erdem:2017:MCE


Elias:2020:EMR


Edwards:2004:RAS


Escudero:2008:MTP

REFERENCES


REFERENCES


Forbes:2012:OIA


Ferrara:2014:HMW


Fang:2023:ETC


Fazio:2014:MDL

REFERENCES


REFERENCES


Dennis Fung and Tim Liang. The effectiveness of collaborative mind mapping in Hong Kong primary science


REFERENCES


[FTWC18] Teukava Finau, David F. Treagust, Mi hye Won, and A. L. Chandrasegaran. Effects of a mathematics cognitive acceleration program on student achievement and motivation. *International Journal of Science and Mathematics Education*, 16(1):183–202, January 2018. CODEN ????, ISSN 1571-
REFERENCES


REFERENCES

144

Gasteiger:2021:BCE

Gasteiger:2024:CBC

Garcia-Carmona:2019:PSP

Garcia-Carmona:2021:UAS

Garcia-Carmona:2018:PPT
Antonio García-Carmona, Ana M. Criado, and Marta Cruz-Guzmán. Prospective primary teachers’ prior experiences,

**Gomez-Chacon:2015:SGW**


**Gilleece:2010:EMS**


**Gomez:2019:MSB**


**Gonzalez-DeHass:2024:USM**

REFERENCES

Goldston:2010:PAL


Getahun:2023:SRA


Gomezescobar:2018:NSI


Gonzalez-Forte:2023:IWT


Goodchild:2009:ESM

REFERENCES


Meng Guo, Xiang Hu, and Frederick K. S. Leung. Culture, goal orientations, and mathematics achievement among Chinese students. *International Journal of Science and Math-
REFERENCES


REFERENCES


[Guerrero-Ortiz:2018:FTB] Carolina Guerrero-Ortiz, Jaime Mena-Lorca, and Astrid Morales Soto. Fostering transit between real world and mathemati-
REFERENCES


REFERENCES


Gravemeijer:2017:WME


Gougis:2017:PSS


Gardner:2019:IIS


Guberman:2016:DAT


Hendrik Härtig, Sascha Bernholt, Nicole Fraser, Jennifer G. Cromley, and Jan Retelsdorf. Comparing reading comprehension of narrative and expository texts based on the direct and inferential mediation model. *International Journal of Science and Mathematics Education*, 20(S1):17–41, ????
REFERENCES

Han:2019:ESM

Hofler:2017:SVS

Hagay:2013:CAC

Herman:2016:TLN

Huang:2016:GDE
Po-Sheng Huang and Hsueh-Chih Chen. Gender differences in eye movements in solving text-and-diagram sci-

[Ha:2023:SSU]


[Ha:2024:CSS]


[Hwang:2018:CDT]


[Hwang:2018:DTI]

Jihyun Hwang, Kyong Mi Choi, Yejun Bae, and Dong Hoon Shin. Do teachers’ instructional practices moderate equity in mathematical and scientific literacy?: an investigation of the PISA 2012 and 2015. *International Journal of Science and Mathematics Education*, 16(1S):25–45, August 2018. CODEN ????. ISSN 1571-0068 (print), 1573-1774
REFERENCES

157


[Hofstein:2003:DLA]

[Han:2015:HST]

[Huang:2016:RAS]

[Hwang:2023:EAM]

[Ng:2018:HSS]
Chi hung Clarence Ng. High school students’ motivation to learn mathematics: The role of multiple goals. *International
REFERENCES


REFERENCES


[HHS+21] Jon-Chao Hong, Ming-Yueh Hwang, Elson Szeto, Kai-Hsin Tai, and Chi-Ruei Tsai. Undergraduate science students’


REFERENCES


REFERENCES

164


Huang:2007:EHH


Huang:2013:UA


Havia:2023:PST


Hu:2018:ICS


Ho:2022:IAH

[HLT22] Hsin Ning Jessie Ho, Jyh-Chong Liang, and Chin-Chung Tsai. The interrelationship among high school students’


Huan:2022:DVC


Hrin:2016:ESS


Hand:2007:UWL


Haroun:2016:GDT


Howe:2011:RNP

Christine Howe, Terezinha Nunes, and Peter Bryant. Rational number and proportional reasoning: using intensive quantities to promote achievement in mathematics and science. *International Journal of Science and Mathematics Ed-
REFERENCES


REFERENCES


Habiddin:2021:ESA


Hannell-Pamment:2024:RSL


Hsin:2016:DVT


Holbrook:2009:ECF


Hokayem:2014:EFG

[HS14] Hayat Hokayem and Christina Schwarz. Engaging fifth graders in scientific modeling to learn about evaporation and condensation. International Journal of Science and


[Hsu:2019:HSS] Pei-Ling Hsu. High school students’ and scientists’ experiential descriptions of cogenerative dialogs. *International
REFERENCES


[Hua17] Hsin-Mei E. Huang. Curriculum interventions for area measurement instruction to enhance children’s conceptual un-


REFERENCES


Jao:2017:SPS

Jiang:2010:SST

Jacinto:2017:MPS

Jeries:2020:SFI

Joswick:2024:SRB


REFERENCES

Jacobson:2018:MST


Juuti:2010:STM


Jiang:2021:CSH


Ju:2016:HMK


Johansson:2016:MRR

Jones:2019:SAC

Joklitschke:2022:NCM

Jenssen:2023:MPS

Jin:2024:SVS

Jin:2019:SSU
REFERENCES


**Johnston:2020:SKA**


**Jazby:2023:NST**


**Jin:2021:EGF**


**Kim:2019:FSS**


REFERENCES

[135x681] Kaw

[135x597]

[135x500]

[135x403]

[135x295]

[135x186]

[135x93]

[135x93]

[135x93]

[135x93]

[135x93]

[135x93]

[135x93]

183


Rola Khishfe and Saouma BouJaoude. Lebanese students’ conceptions of and attitudes towards science and related careers based on their gender and religious affiliations. *International Journal of Science and Mathematics Education*,
REFERENCES


Katalenic:2023:PMT


Kaberman:2009:QPI


Kilic:2022:PMT


Krainer:2021:RLT


Kertil:2023:PSM

[KEC23] Mahmut Kertil, Ayhan Kursat Erbas, and Bulent Cetinkaya. Pre-service mathematics teachers’ understanding of rate of


REFERENCES


REFERENCES


REFERENCES


Karpudewan:2012:EGC


Komatsu:2019:TDP


Kontorovich:2016:CSE


Kara:2022:IMB


Kim:2022:ASR

[KK22b] Hyun-Kyung Kim and Haesun A. Kim. Analysis of student responses to constructed response items in the science assess-


REFERENCES


REFERENCES

Kohen:2022:EMS

Kubsch:2020:SSU

Knipprath:2010:WPT

Ko:2010:MTC


REFERENCES


[KSE16] Ida Kukliansky, Itai Shosberger, and Haim Eshach. Science teachers’ voice on homework: beliefs, attitudes, and


Kuo:2019:ELN


Kulgemeyer:2018:ISS


Kuwahara:2013:IPB


Kubiatko:2010:RBI


Kim:2022:ISI

REFERENCES


Kulgemeyer:2023:MPE


Kwok:2022:BKA


Keraro:2007:ECC


Kala:2013:EPO

REFERENCES


[LAA+23] Elon Langbeheim, Sevil Akaygun, Emine Adadan, Manzini Hlatshwayo, and Umesh Ramnarain. Relating pictorial and verbal forms of assessments of the particle model of matter in


REFERENCES

Lawson:2005:CHQ

Lee:2008:IIS

Levy:2022:PGP

Ledezma:2024:PTR

Langlois:2024:ISM
Simon Langlois, Nathan Béchard, Guillaume Poliquin, Stéphane Cyr, and Patrice Potvin. Integrating science and

**Liu:2014:ETM**


**Liu:2014:TMP**


**Lin:2023:USM**


**Lamb:2016:END**

REFERENCES

Lundgren:2021:PPS

Liang:2009:PTV

Lin:2011:PUT

Lu:2011:CSC

Li:2024:TSB
Rangmei Li, Yiming Cao, Haijun Tang, and Gabriele Kaiser. Teachers’ scaffolding behavior and visual perception during cooperative learning. *International Journal of Science
REFERENCES


Lerman:2004:E


Lerman:2007:DLR


Leu:2005:EPM


Leung:2019:ESP


Leung:2022:STB

REFERENCES


La\wrenz:2017:E


La\wrenz:2017:ISI


La\wrenz:2018:CEF


La\wrenz:2018:CIS

REFERENCES


Lin:2009:PLG


Lin:2012:REE


Lee:2024:PTT


Li:2011:ETT


Liljedahl:2007:PBJ

REFERENCES


REFERENCES


[Lin16b] Shu-Sheng Lin. Erratum to: Science and non-science undergraduate students’ critical thinking and argumentation


REFERENCES


[LK22] Maria Latsi and Chronis Kynigos. Mathematical assemblages around dynamic aspects of angle in digital and physical space. *International Journal of Science and Mathe-
REFERENCES


Larkin:2023:TAS


Lin:2015:DCB


Lin:2016:ESS


Liou:2023:GDS


Lu:2015:AAH

REFERENCES


REFERENCES


[LM10] Shu-Sheng Lin and Joel J. Mintzes. Learning argumentation skills through instruction in socioscientific issues:


REFERENCES


REFERENCES


Lee:2024:ETV


Llinares:2008:SSS


Lane:2020:FMT


Lin:2014:EIS


Lee:2015:DPO

Soo Jin Lee and Jaehong Shin. Distributive partitioning operation in mathematical situations involving fractional quantities. *International Journal of Science and
Lautert:2021:UUA


Lytle:2023:SPI


Lin:2024:CMD


Lim:2018:UPT


Liu:2014:USS

Shu-Chiu Liu and Huann Shyang Lin. Undergraduate students’ science-related ideas as embedded in their environment-
REFERENCES


[LSW19]


[LTCY07]


[LTD+18]

REFERENCES


REFERENCES


REFERENCES

Lin:2007:MMD


Li:2018:CSR


Menon:2021:IPT


Ma:2023:EIB


Madej:2022:PSS

Ma\textsuperscript{jidi}:2014:CBK


Marra:2011:OPD


Maschietto:2015:AMZ


Mesutoglu:2020:EDM

REFERENCES

Milovanovic:2021:APE


Mellado:2008:CPP


Melville:2013:SIC


Mintzes:2004:UCC


McComas:2003:TCN

Marchant:2023:SIM


McGinnis:2003:CSM


Martin-Dunlop:2008:LEA


Middleton:2013:CCR


Markic:2013:PCP

Silvija Markic and Ingo Eilks. Potential changes in prospective chemistry teachers’ beliefs about teaching and learning — a cross-level study. *International Journal of Sci-
REFERENCES


[MFG+21] Judith Morrison, Janet Frost, Chad Gotch, Amy Roth McDuffie, Bruce Austin, and Brian French. Teachers’ role in students’ learning at a project-based STEM high school: Implications for teacher education. International Journal of
Morentin:2015:PST

Morentin:2015:RSM

Mainali:2017:CTI

Marshall:2009:KSM

Mattheis:2015:EHS
Allison Mattheis, Debra Ingram, Murray S. Jensen, and Jon Jackson. Examining high school anatomy and phys-


[MKSK16] Jaan Mikk, Heiki Krips, Ülle Säälik, and Karmen Kalk. Relationships between student perception of teacher–student re-


REFERENCES

McGee:2014:SSR


McGee:2015:IEP


Moutinho:2016:MMA


Moin:2009:IAG


Møgelvang:2023:COL

REFERENCES


[MOI07] Bryan James Moseley, Yukari Okamoto, and Junichi Ishida. Comparing US and Japanese elementary school teachers’ fa-

**Mor09a**


**Mor09b**


**Mor14**


**MP10**


Molina:2017:SSS


Maiorca:2021:IIE


Mejia-Rodriguez:2021:GDM


So:2013:CMP

REFERENCES


Katja Maass, Stefan Sorge, and Oliver Straser. Promoting active citizenship in mathematics and science teaching.


[Nas:2022:FCG] Sibel Er Nas, Hava İpek Akbulut, Muammer Çalış, and Merve İrem Emir. Facilitating conceptual growth of the mainstreamed students with learning disabilities via a science


[Ng:2020:TMV] Oi-Lam Ng and Francesca Ferrara. Towards a materialist vision of ‘learning as making’: the case of 3D print-
REFERENCES


Ng:2020:DSM


Neber:2008:CHS


Niss:2017:ORS


Naranjo:2024:HSC


Nunokawa:2004:SAP

REFERENCES

Nawani:2018:TUF


Ng:2016:SML


Newton:2011:ESP


Navarro:2022:SWH


REFERENCES


REFERENCES


Olsher:2019:OTS


Otto:2012:UST


Oh:2014:UAC


ODwyer:2023:SSA

Anne O’Dwyer, Mairéad Hourigan, Aisling M. Leavy, and Edward Corry. ‘I have seen STEM in action and it’s quite


REFERENCES

Olson:2007:PTT


Olsson:2018:CRU


Ozgeldi:2021:ICD


Oltean:2012:IEC


OKeeffe:2015:RLA

REFERENCES

Özdemir:2023:SFI


Orosco:2016:MES


Oh:2005:SRI


Obara:2010:CEN


Ozturk:2024:MSS


Papadopoulos:2010:RTE


Parameswaran:2007:UNL


Prophet:2009:LSP


Pettersen:2019:MCD


Peters-Burton:2023:STS

PARK:2013:ASU


PREMO:2018:CCE


PINTO:2022:FRE


PRIETO:2017:EIM

REFERENCES

Palha:2015:ESP


Pekdag:2021:ECR


Pedersen:2015:WCA


Parviainen:2023:TEM


Prediger:2024:EIQ

Susanne Prediger, Kirstin Erath, Kim Quabeck, and Rebekka Stahnke. Effects of interaction qualities beyond

**Perry:2020:DEG**


**Peters:2013:ERA**


**Peten:2022:IAD**


**Pino-Fan:2023:MTC**


[PMLC15] Patrice Potvin, Steve Masson, Stéphanie Lafortune, and Guillaume Cyr. Persistence of the intuitive conception that

**Planinic:2012:CSU**


**Patterson:2004:CST**


**Pettersen:2018:ICD**


**Panizzon:2008:APE**


Pocalana:2024:EDM


Proulx:2024:RPR


Petocz:2007:USC


Patkin:2019:SAP

Pyzdrowski:2013:RAI


Pearce:2020:UDM


Pamuk:2017:MAS


Papadopoulos:2023:MBT


Pauka:2005:VES

Soikava Pauka, David F. Treagust, and Bruce Waldrip. Village elders’ and secondary school students’ explanations of


[Ronda:2017:MMT]


[Rogers:2007:EPD]


[Ramnarain:2024:INS]


[Ranade:2006:DCP]


Felipe Ruz, Beth L. Chance, and José M. Contreras. Exploring how Chilean pre-service teachers’ attitudes towards stochastics vary by content topic. *International Journal of
REFERENCES

*Rogers:2011:FYI*


*Rahayu:2011:UAB*


*Redmond:2020:SFS*


*Reid-Griffin:2008:UPR*

Ruhrig:2015:CST


Rach:2017:TSU


Russo:2019:TPS


Russo:2023:SAC


Reiss:2011:UPR

Ramsay-Jordan:2021:HSM


Rizk:2012:EBS


Rahayu:2010:AIJ


Robinson:2012:OTT


Revina:2019:HSF

Shintia Revina and Frederick Koon Shing Leung. How the same flowers grow in different soils? The implementation of realistic mathematics education in Utrecht and

[Radevic:2024:CTM]


[Rezat:2022:SCR]


[Russo:2022:IMP]


[Rollinde:2019:LST]


[Ronen:2018:ATE]

Ilana Ronen. “Authentic tasks” and “extreme tasks”: Potential approaches to overcoming incorrect responses in conservation tasks. *International Journal of Science and Math-


REFERENCES

**Romance:2017:ICS**


**Roorda:2015:AOT**


**Ross:2020:MAI**


**Rau:2016:CPC**


REFERENCES


Susac:2014:EMR


Scataglini-Belghitar:2012:EAC


Siraj-Blatchford:2014:CPP


Siraj-Blatchford:2016:ECP


Seybold:2014:PCE

[SBR14] Brigitte Seybold, Thomas Braunbeck, and Christoph Randler. Primate conservation — an evaluation of two different educational programs in Germany. *International Journal

Safrudinnur:2022:PLA


Scantlebury:2007:AIG


Stavy:2006:IRU


Sade:2003:TTE


Smith:2011:WTI

Emma Smith and Sandra Cooke. ‘i was told it was going to be hard work but i wasn’t told it was going to be

*Sarkar:2014:BST*


*Seah:2021:CSS*


*Simpson:2016:GBA*


*Suseelan:2023:STD*

REFERENCES


Shore:2012:PER


Shin:2019:IUC


Saglam:2016:QRE


Sebatana:2022:RME


Sekao:2022:SAP

REFERENCES

Seah:2016:ETP


Sahin:2018:CEI


Spinner:2005:EIM


Simpson:2022:TWP


Schur:2009:TJN

REFERENCES


REFERENCES


[Shi21] Dongjo Shin. Preservice mathematics teachers’ selective attention and professional knowledge-based reasoning about

**Shin:2022:TMI**


**Sabbah:2021:IAF**


**Shymansky:2003:E**


**Saleh:2023:ERB**


**Shirley:2011:PIC**

Melissa L. Shirley, Karen E. Irving, Vehbi A. Sanalan, Stephen J. Pape, and Douglas T. Owens. The practical-


Staus:2020:VMS


Schallert:2022:TIB


Sun:2010:DVR


Spyrtou:2018:TTL


Shapira-Lishchinsky:2020:MAP

Orly Shapira-Lishchinsky and Erez Zavelevsky. Multiple appearances of parental interactions and math achievement on
REFERENCES


Wonho Shin and Jongwon Park. Developing a list of behavioral characteristics of creative physicists during their

**Superfine:2021:UCA**


**Saat:2023:CGM**


**Safrudiannur:2021:OAM**


**Stephens:2023:SDA**

Sawatzki:2018:SST


Stoelsma:2019:RBE


Shin:2021:SRD


She:2018:SML


Stamovlasis:2005:CVP

REFERENCES

Semiz:2024:TST


Sia:2012:HSS


Salimpour:2023:CCD


Straub:2020:SSR

REFERENCES


REFERENCES


REFERENCES

Sahin:2020:IHP


Sum:2024:USD


Safadi:2014:PSV


Siani:2022:TTD


References


REFERENCES


[TCH+17] Mourat Tchoshanov, Maria D. Cruz, Karla Huereca, Kadiyiya Shakirova, Liliana Shakirova, and Elena N. Ibragimova. Examination of lower secondary mathematics teachers’ content


Laura Tuohilampi, Markku S. Hannula, Leonor Varas, Valentina Giaconi, Anu Laine, Liisa Näveri, and Laia Saló i


REFERENCES


Tesfamariam:2017:NSD


Tang:2022:MET


Tang:2024:CME


Tee:2021:SRM


Tan:2021:RAH

[TLT21] Aik-Ling Tan, Jyh-Chong Liang, and Chin-Chung Tsai. Relationship among high school students’ science academic har-
REFERENCES


REFERENCES

Topcu:2013:PTE


Tao:2012:LTO


Tytler:2023:CRC


Taasoobshirazi:2019:STG


Triantafillou:2021:TEA

[TPS21] Chrissavgi Triantafillou, Giorgos Psycharis, and Vasiliki Spiliotopoulou. Teacher educators’ activity aiming to sup-

**Tang:2021:RME**


**Treagust:2004:E**


**Tsatsaroni:2005:SRS**


**Tzur:2004:DTS**


**Takeuchi:2020:CLS**

[TS20] Haruka Takeuchi and Yusuke Shinno. Comparing the lower secondary textbooks of Japan and England: a praxeologi-


REFERENCES


REFERENCES


Turgut:2022:RGL


Taylor:2003:ECC


Tang:2016:ISM


Timothy:2023:FPT


Taslidere:2023:ECC

Erdal Taslidere and Bilgetürk Yıldırım. Effect of concept- 

ual change-oriented instruction on students’ conceptual un-

Tuan:2017:IIM


Tho:2017:SRR


Urhan:2018:ANG


Ubuz:2019:EPM

REFERENCES


REFERENCES

vonAufschnaiter:2006:PBI

Venkat:2021:DSA

Velayutham:2012:GDS

Vallera:2020:ISA

Vesga-Bravo:2022:BAM
Grace-Judith Vesga-Bravo, Zaida-Mabel Angel-Cuervo, and Gerardo-Antonio Chacón-Guerrero. Beliefs about mathe-
REFERENCES

matics, its teaching, and learning: Contrast between pre-
service and in-service teachers. *International Journal of Sci-
CODEN ???. ISSN 1571-0068 (print), 1573-1774 (elec-
1007/s10763-021-10164-3.

[VC17] Wilhelmina Sabina Van Rooy and Eveline Chan. Multi-
modal representations in senior biology assessments: A
case study of NSW Australia. *International Journal of Sci-
ence and Mathematics Education*, 15(7):1237–1256, October
2017. CODEN ???. ISSN 1571-0068 (print), 1573-1774

[VC23] De Van Vo and Benó Csapó. Exploring inductive reasoning,
scientific reasoning and science motivation, and their role
in predicting STEM achievement across grade levels. *Inter-
national Journal of Science and Mathematics Education*, 21
(8):2375–2398, December 2023. CODEN ???. ISSN 1571-

[VCSA+23] Elisa Vilhunen, Mei-Hung Chiu, Katariina Salmela-Aro, Jari
Lavonen, and Kalle Juuti. Epistemic emotions and obser-
vations are intertwined in scientific sensemaking: a study
among upper secondary physics students. *International Jour-
nal of Science and Mathematics Education*, 21(5):1545–1566,
June 2023. CODEN ???. ISSN 1571-0068 (print), 1573-1774
10.1007/s10763-022-10310-5.

[VCSW20] Colleen Vale, Coral Campbell, Christopher Speldewinde, and
Pennie White. Teaching across subject boundaries in STEM:
Continuities in beliefs about learning and teaching. *Inter-
national Journal of Science and Mathematics Education*, 18(3):
463–483, March 2020. CODEN ???. ISSN 1571-0068 (print),
vanDijke-Droogers:2022:ISI


vanderWal:2017:WTM


VandenEynde:2023:RGB


Velasco:2022:EAS


Vidic:2015:FYS

[Vid15] Andreja Drobnic Vidic. First-year students’ beliefs about context problems in mathematics in university science pro-


Barend Vlaardingerbroek and T. G. Neil Taylor. Upper secondary school physical science curricula in New Zealand

Verhoef:2014:CLS


Vieira:2016:FSL


vanVelzen:2016:EGH


Vallejo-Vargas:2024:IVM

REFERENCES


REFERENCES


[WBB17] Yuqian Wang, Patrick Barnby, and David Bolden. Understanding linear function: a comparison of selected textbooks

**Weinberg:2021:PGI**


**Wang:2016:DV**


**Wong:2023:PPP**


**Wei:2019:ISS**

REFERENCES

Wu:2009:DIT


Wang:2012:DTA


Wong:2016:ACD


Watson:2012:LCM


Webb:2013:XIK

Weldeana:2015:GPH


Wan:2023:SIP


Wright:2016:BTP


Weiss:2004:ICI


Watson:2023:CWW

Jane Watson, Noleine Fitzallen, Suzie Wright, and Ben Kelly. Characterizing the ways in which young students recognize, describe, explain, and employ variation when analysing


Dongsheng Wan and Yew-Jin Lee. The intellectual demands and coherency of topics of reformed primary science curric-

**Wan:2022:CTM**


**Wu:2018:ETP**


**Wei:2014:URM**


**Wong:2009:EMZ**


Whitacre:2016:HSG


Wiebe:2007:EES


Wang:2022:ICT


Wilhelm:2008:EPS


Lihua Xu, Su-Chi Fang, and Linda Hobbs. The relevance of STEM: a case study of an Australian secondary school as an


Jya-Yi Wu Yu, Erh-Tsung Chin, and Chia-Jung Lin. Taiwanese junior high school students’ understanding about the


Yang:2018:VIM


Yang:2016:EEB


Yuenyong:2008:CTN


Yang:2021:RBC


Yao:2018:IEM

Yiling Yao, Qiping Kong, and Jinfa Cai. Investigating elementary and middle school students’ subjective well-being and mathematical performance in Shanghai. *International Journal of Science and Mathematics Education*, 16(S):107–127, August 2018. CODEN ???? ISSN 1571-0068 (print),


REFERENCES

Yim:2022:SUP


Yeo:2021:EIW


Yan:2022:AMS


Yang:2008:SPG


REFERENCES

Yen:2018:AMC


Yu:2020:SRA


Yow:2021:MST


Yu:2013:QEP


Yen:2004:A

Chiung-Fen Yen, Tsung-Wei Yao, and Yu-Chih Chiu. Alternative conceptions in animal classification focusing on amphibians and reptiles: A cross-age study. *International
Yahaya:2015:ESS


Zwiep:2013:ETK


Zhang:2022:SSC


Zowada:2021:EES

Zhou:2023:CGM


Zhang:2016:WPS


Zhang:2015:EIT


Zeidan:2010:RBG


Zeidan:2015:CLE

REFERENCES


REFERENCES

Zhang:2005:OCC


Zhu:2011:MAT


Zhu:2012:HMA


Zoldosova:2006:AMO


Zhou:2024:HDS

Xuan Zhou, Yolanda Padrón, Hersh C. Waxman, Eunkyeng Baek, and Sandra Acosta. How do school climate and professional development in multicultural education impact job

Zhao:2011:WDC


Zhao:2011:WDC


Zhan:2021:ITP


Zhu:2023:IMS


Zhao:2018:CPS
REFERENCES


