

Bilaga 1: Sökstrategi

Källor

Internationella vetenskapliga ämnesdatabaser

Sökningen i de internationella vetenskapliga databaserna genomfördes i juni 2016. Exakta söksträngar redovisas nedan.

- Ebsco/Education Resources Information Centre (ERIC)
- Ebsco/Education Source
- Ebsco/PsycINFO
- Thomson Reuters/Web Of Science

Skandinaviska ämnesdatabaser

Sökningen i de skandinaviska databaserna genomfördes i september 2016. Exakta söksträngar redovisas nedan.

- Danish National Research Database (<http://forskningsdatabasen.dk/>)
- Digitala Vetenskapliga Arkivet - DiVA (<https://www.diva-portal.org/>)
- Idunn - Nordiska tidskrifter på nätet (<https://www.idunn.no/>)
- Libris (<http://libris.kb.se/>)
- NB-ECEC (<http://nb-ecec.org>).
- Skolporten (<http://www.skolporten.se/>)
- SwePub (<http://swepub.kb.se/>)

Vetenskapliga tidskrifter

Handsökning av utvalda tidskrifter genomfördes i september 2016. Sökningen utfördes främst som en kontroll för att inte missa studier som eventuellt inte hunnit bli indexerade i databaserna vid tillfället för sökningarna. Tidskrifterna valdes ut baserat på vilka som hade genererat flest relevanta träffar efter den inledande relevansgranskningen.

- Computers & Education, mars-sept 2016
- The International Journal for Technology in Mathematics Education, mars-sept 2016
- Journal of Computers in Mathematics and Science Teaching, mars-sept 2016
- Mathematics Teacher, mars-sept 2016
- Mathematics Teaching in Middle School, mars-sept 2016
- Journal of Educational Technology & Society, mars-sept 2016
- International Journal of Mathematical Education in Science and Technology, mars-sept 2016

Konferenssamlingar (proceedings)

Handsökning av utvalda tillgängliga konferenssamlingar genomfördes i september 2016. De konferenssamlingar som handsöktes valdes ut baserat på de externa forskarnas bedömningar av tänkbart viktiga konferenser inom fältet.

- Congress of the European Society for Research in Mathematics Education, CERME (nr. 5–9)
- The International Group for the Psychology of Mathematics Education, PME (nr. 30 och 31)

Redovisning av exakta söksträngar

Ebsco/ERIC

Sökningen utfördes i juni 2016

Teknisk avgränsning: Peer-Reviewed, Publiceringsår från 2006

(TI math* OR AB math* OR SU math* OR KW math* OR (SO math* AND (problem solving OR reasoning OR modeling OR modelling)) OR trigonometr* OR geometr* OR algebra* OR arithmetic* OR calculus OR DE "probability" OR DE "statistics" OR numeracy OR number sense OR number concepts OR multiplication OR subtraction OR DE "addition")

AND

(computer* OR Digital* OR ICT OR Software OR CAI OR CAS OR multimedia OR App OR Phone OR *pad OR Tablet OR Applet OR Notebook OR Netbook OR Hand Held OR *screen OR laptop OR virtual OR (technolog* (learn* OR information OR interacti* OR instruction* OR web-based OR environment OR tool OR device OR mobile OR dynamic*)) OR ((game OR gaming) AND (interacti* OR instruction* OR video OR simulation OR reality OR mobile OR online)) OR (electronic* (environment OR tool OR device OR unit)) OR (interacti* (video OR environment OR tool OR device OR unit)) OR (system AND (dynamic* OR electronic* OR interacti* OR intelligent)))

AND

(TI children OR AB children OR KW children OR SU children OR TI toddler* OR AB toddler* OR KW toddler* OR SU toddler* OR TI Adolescence OR AB Adolescence OR KW Adolescence OR SU Adolescence OR TI elementary OR AB elementary OR KW elementary OR SU elementary OR TI ("elementary secondary") OR AB ("elementary secondary") OR KW ("elementary secondary") OR SU ("elementary secondary") OR TI (grade* 1) OR TI (First grade*) OR AB (grade* 1) OR AB (First grade*) OR KW (grade* 1) OR KW (First grade*) OR SU (grade* 1) OR SU (First grade*) OR TI (grade* 2) OR TI (Second grade*) OR AB (grade* 2) OR AB (Second grade*) OR KW (grade* 2) OR KW (Second grade*) OR SU (grade* 2) OR SU (Second grade*) OR TI (grade* 3) OR TI (Third grade*) OR AB (grade* 3) OR AB (Third grade*) OR KW (grade* 3) OR KW (Third grade*) OR SU (grade* 3) OR SU (Third grade*) OR TI (grade* 4) OR TI (Fourth grade*) OR AB (grade* 4) OR AB (Fourth grade*) OR KW (grade* 4) OR KW (Fourth grade*) OR SU (grade* 4) OR SU (Fourth grade*) OR TI (grade* 5) OR TI (fifth grade*) OR AB (grade* 5) OR AB (fifth grade*) OR KW (grade* 5) OR KW (fifth grade*) OR SU (grade* 5) OR SU (fifth grade*) OR TI (grade* 6) OR TI (sixth grade*) OR AB (grade* 6) OR AB (sixth grade*) OR KW (grade* 6) OR KW (sixth grade*) OR SU (grade* 6) OR SU (sixth grade*) OR TI (grade* 7) OR TI (seventh grade*) OR AB (grade* 7) OR AB (seventh grade*) OR KW (grade* 7) OR KW (seventh grade*) OR SU (grade* 7) OR SU (seventh grade*) OR TI (grade* 8) OR TI (Eighth grade*) OR AB (grade* 8) OR AB (Eighth grade*) OR KW (grade* 8) OR KW (Eighth grade*) OR SU (grade* 8) OR SU (Eighth grade*) OR TI (grade* 9) OR TI (Ninth grade*) OR AB (grade* 9) OR AB (Ninth grade*) OR KW (grade* 9) OR KW (Ninth grade*) OR SU (grade* 9) OR SU (Ninth grade*) OR TI (grade* 10) OR TI (tenth grade*) OR AB (grade* 10) OR AB (tenth grade*) OR KW (grade* 10) OR KW (tenth grade*) OR SU (grade* 10) OR SU (tenth grade*) OR TI (grade* 11) OR TI (eleventh grade*) OR AB (grade* 11) OR AB (eleventh grade*) OR KW (grade* 11) OR KW (eleventh grade*) OR SU (grade* 11) OR SU (eleventh grade*) OR TI (grade* 12) OR TI (twelfth grade*) OR AB (grade* 12) OR AB (twelfth grade*) OR KW (grade* 12) OR KW (twelfth grade*) OR SU (grade* 12) OR SU (twelfth grade*) OR TI ("High school*") OR AB ("High school*") OR KW ("High school*") OR SU ("High school*") OR TI Intermediate OR AB Intermediate OR KW Intermediate OR SU Intermediate OR TI ("Junior High") OR AB ("Junior High") OR KW ("Junior High") OR SU ("Junior High") OR TI (Kindergarten*) OR AB (Kindergarten*) OR KW (Kindergarten*) OR SU (Kindergarten*) OR TI ("Middle school*") OR AB ("Middle school*") OR KW ("Middle school*") OR SU ("Middle school*") OR TI (Preschool*) OR AB (Preschool*) OR KW (Preschool*) OR SU (Preschool*) OR TI ("Primary education") OR AB ("Primary education") OR KW ("Primary education") OR SU ("Primary education") OR TI ("Primary school*") OR AB ("Primary school*") OR KW ("Primary school*") OR SU ("Primary school*") OR TI ("Secondary education") OR AB ("Secondary education") OR KW ("Secondary education") OR SU ("Secondary education") OR TI ("secondary school*") OR AB ("secondary school*") OR KW ("secondary school*") OR SU

("secondary school*") OR TI ("secondary student*") OR AB ("secondary student*") OR KW ("secondary student*") OR SU ("secondary student*") OR TI classroom* OR AB classroom* OR SW classroom* OR SU classroom* OR TI ((two OR 2) year-old*) OR AB ((two OR 2) year-old*) OR KW ((two OR 2) year-old*) OR SU ((two OR 2) year-old*) OR TI ((three OR 3) year-old*) OR AB ((three OR 3) year-old*) OR KW ((three OR 3) year-old*) OR SU ((three OR 3) year-old*) OR TI ((four OR 4) year-old*) OR AB ((four OR 4) year-old*) OR KW ((four OR 4) year-old*) OR SU ((four OR 4) year-old*) OR TI ((five OR 5) year-old*) OR AB ((five OR 5) year-old*) OR KW ((five OR 5) year-old*) OR SU ((five OR 5) year-old*) OR TI ((six OR 6) year-old*) OR AB ((six OR 6) year-old*) OR KW ((six OR 6) year-old*) OR SU ((six OR 6) year-old*) OR TI ((seven OR 7) year-old*) OR AB ((seven OR 7) year-old*) OR KW ((seven OR 7) year-old*) OR SU ((seven OR 7) year-old*) OR TI ((eight OR 8) year-old*) OR AB ((eight OR 8) year-old*) OR KW ((eight OR 8) year-old*) OR SU ((eight OR 8) year-old*) OR TI ((nine OR 9) year-old*) OR AB ((nine OR 9) year-old*) OR KW ((nine OR 9) year-old*) OR SU ((nine OR 9) year-old*) OR TI ((ten OR 10) year-old*) OR AB ((ten OR 10) year-old*) OR KW ((ten OR 10) year-old*) OR SU ((ten OR 10) year-old*) OR TI ((eleven OR 11) year-old*) OR AB ((eleven OR 11) year-old*) OR KW ((eleven OR 11) year-old*) OR SU ((eleven OR 11) year-old*) OR TI ((twelve OR 12) year-old*) OR AB ((twelve OR 12) year-old*) OR KW ((twelve OR 12) year-old*) OR SU ((twelve OR 12) year-old*) OR TI ((thirteen OR 13) year-old*) OR AB ((thirteen OR 13) year-old*) OR KW ((thirteen OR 13) year-old*) OR SU ((thirteen OR 13) year-old*) OR TI ((fourteen OR 14) year-old*) OR AB ((fourteen OR 14) year-old*) OR KW ((fourteen OR 14) year-old*) OR SU ((fourteen OR 14) year-old*) OR TI ((fifteen OR 15) year-old*) OR AB ((fifteen OR 15) year-old*) OR KW ((fifteen OR 15) year-old*) OR SU ((fifteen OR 15) year-old*) OR TI ((sixteen OR 16) year-old*) OR AB ((sixteen OR 16) year-old*) OR KW ((sixteen OR 16) year-old*) OR SU ((sixteen OR 16) year-old*) OR TI ((seventeen OR 17) year-old*) OR AB ((seventeen OR 17) year-old*) OR KW ((seventeen OR 17) year-old*) OR SU ((seventeen OR 17) year-old*) OR TI ((eighteen OR 18) year-old*) OR AB ((eighteen OR 18) year-old*) OR KW ((eighteen OR 18) year-old*) OR SU ((eighteen OR 18) year-old*) OR TI ("primary grade*") OR AB ("primary grade*") OR KW ("primary grade*") OR SU ("primary grade*") OR TI ("secondary grade*") OR AB ("secondary grade*") OR KW ("secondary grade*") OR SU ("secondary grade*")

Ebsco/Education Source

Sökningen utfördes i juni 2016

Teknisk avgränsning: Peer-Reviewed, Publiceringsår från 2006

((TI Math* OR AB math* OR SU math* OR KW math*) OR ((SO math*) AND (TI (problem solving) OR AB (problem solving) OR TI reasoning OR AB reasoning OR TI modelling OR AB modelling OR TI modeling OR AB modeling)) OR TI Trigonometr* OR AB trigonometr* OR TI Geometr* OR AB geometr* OR TI Algebra* OR AB Algebra* OR TI Arithmetic* OR AB Arithmetic* OR TI Calculus OR AB Calculus OR DE "Probability learning" OR DE "Probability theory -- Problems, exercises, etc." OR DE "Probability theory -- Study & teaching (Elementary)" OR DE "Probability theory -- Study & teaching (Middle school)" OR DE "Statistics -- Study & teaching" OR DE "Statistics -- Study & teaching (Elementary)" OR DE "Statistics -- Study & teaching (Middle school)" OR DE "Statistics -- Problems, exercises, etc." OR TI Numeracy OR AB Numeracy OR TI Number sense OR AB Number sense OR TI Number concepts OR AB Number concepts OR TI Multiplication OR AB Multiplication OR TI Subtraction OR AB Subtraction OR DE "Addition (Mathematics) -- Study & teaching")

AND

(TI computer* OR AB computer* OR SU computer* OR KW computer* OR TI Digital* OR AB Digital* OR SU Digital* OR KW Digital* OR TI ICT OR AB ICT OR SU ICT OR KW ICT OR TI Software OR AB Software OR SU ((dynamic* OR education*) software) OR KW ((dynamic* OR education*) software) OR TI CAI OR AB CAI OR SU CAI OR KW CAI OR TI CAS OR AB CAS OR SU CAS OR KW CAS OR TI multimedia OR AB multimedia OR SU multimedia OR KW multimedia OR TI App OR AB App OR SU App OR KW App OR TI Phone OR AB Phone OR SU Phone OR KW Phone OR TI *pad OR AB *pad OR SU *pad OR KW *pad OR TI Tablet OR AB Tablet OR SU Tablet OR KW Tablet OR TI Applet OR AB Applet OR SU Applet OR KW Applet OR TI Notebook OR AB Notebook OR SU Notebook OR KW Notebook OR TI Netbook OR AB Netbook OR SU Netbook OR KW Netbook OR TI Hand Held OR AB Hand Held OR SU Hand Held OR KW Hand Held OR TI screen OR AB screen OR SU screen OR KW screen OR TI laptop OR AB laptop OR SU laptop OR KW laptop OR TI virtual OR AB virtual OR SU virtual OR KW virtual OR (TI technolog* (learn* OR information OR interacti* OR instruction* OR web-based

OR environment OR tool OR device OR mobile OR dynamic*)) OR (AB technolog* (learn* OR information OR interacti* OR instruction* OR web-based OR environment OR tool OR device OR mobile OR dynamic*)) OR (KW technolog* (learn* OR information OR interacti* OR instruction* OR web-based OR environment OR tool OR device OR mobile OR dynamic*)) OR (SU technolog* (learn* OR information OR interacti* OR instruction* OR web-based OR environment OR tool OR device OR mobile OR dynamic*)) OR ((TI game OR TI gaming) AND (interacti* OR instruction* OR video OR simulation OR reality OR mobile OR online)) OR ((AB game OR AB gaming) AND (interacti* OR instruction* OR video OR simulation OR reality OR mobile OR online)) OR ((KW game OR KW gaming) AND (interacti* OR instruction* OR video OR simulation OR reality OR mobile OR online)) OR ((SU game OR SU gaming) AND (interacti* OR instruction* OR video OR simulation OR reality OR mobile OR online)) OR (TI electronic* (TI environment OR TI tool OR TI device OR TI unit)) OR (AB electronic* (AB environment OR AB tool OR AB device OR AB unit)) OR (KW electronic* (environment OR tool OR device OR unit)) OR (SU electronic* (environment OR tool OR device OR unit)) OR (TI interacti* (TI video OR TI environment OR TI tool OR TI device OR TI unit)) OR (AB interacti* (AB video OR AB environment OR AB tool OR AB device OR AB unit)) OR (KW interacti* (KW video OR KW environment OR KW tool OR KW device OR KW unit)) OR (SU interacti* (SU video OR SU environment OR SU tool OR SU device OR SU unit)) OR (TI system (TI dynamic* OR TI electronic* OR TI interacti* OR TI intelligent OR)) OR (AB system (AB dynamic* OR AB electronic* OR AB interacti* OR AB intelligent)) OR (KW system (KW dynamic* OR KW electronic* OR KW interacti* OR KW intelligent)) OR (SU system (SU dynamic* OR SU electronic* OR SU interacti* OR SU intelligent)))

AND

(TI children OR AB children OR KW children OR SU children OR TI toddler* OR AB toddler* OR KW toddler* OR SU toddler* OR TI Adolescence OR AB Adolescence OR KW Adolescence OR SU Adolescence OR TI elementary OR AB elementary OR KW elementary OR SU elementary OR TI ("elementary secondary") OR AB ("elementary secondary") OR KW ("elementary secondary") OR SU ("elementary secondary") OR TI (grade* 1) OR TI (First grade*) OR AB (grade* 1) OR AB (First grade*) OR KW (grade* 1) OR KW (First grade*) OR SU (grade* 1) OR SU (First grade*) OR TI (grade* 2) OR TI (Second grade*) OR AB (grade* 2) OR AB (Second grade*) OR KW (grade* 2) OR KW (Second grade*) OR SU (grade* 2) OR SU (Second grade*) OR TI (grade* 3) OR TI (Third grade*) OR AB (grade* 3) OR AB (Third grade*) OR KW (grade* 3) OR KW (Third grade*) OR SU (grade* 3) OR SU (Third grade*) OR TI (grade* 4) OR TI (Fourth grade*) OR AB (grade* 4) OR AB (Fourth grade*) OR KW (grade* 4) OR KW (Fourth grade*) OR SU (grade* 4) OR SU (Fourth grade*) OR TI (grade* 5) OR TI (fifth grade*) OR AB (grade* 5) OR AB (fifth grade*) OR KW (grade* 5) OR KW (fifth grade*) OR SU (grade* 5) OR SU (fifth grade*) OR TI (grade* 6) OR TI (sixth grade*) OR AB (grade* 6) OR AB (sixth grade*) OR KW (grade* 6) OR KW (sixth grade*) OR SU (grade* 6) OR SU (sixth grade*) OR TI (grade* 7) OR TI (seventh grade*) OR AB (grade* 7) OR AB (seventh grade*) OR KW (grade* 7) OR KW (seventh grade*) OR SU (grade* 7) OR SU (seventh grade*) OR TI (grade* 8) OR TI (Eighth grade*) OR AB (grade* 8) OR AB (Eighth grade*) OR KW (grade* 8) OR KW (Eighth grade*) OR SU (grade* 8) OR SU (Eighth grade*) OR TI (grade* 9) OR TI (Ninth grade*) OR AB (grade* 9) OR AB (Ninth grade*) OR KW (grade* 9) OR KW (Ninth grade*) OR SU (grade* 9) OR SU (Ninth grade*) OR TI (grade* 10) OR TI (tenth grade*) OR AB (grade* 10) OR AB (tenth grade*) OR KW (grade* 10) OR KW (tenth grade*) OR SU (grade* 10) OR SU (tenth grade*) OR TI (grade* 11) OR TI (eleventh grade*) OR AB (grade* 11) OR AB (eleventh grade*) OR KW (grade* 11) OR KW (eleventh grade*) OR SU (grade* 11) OR SU (eleventh grade*) OR TI (grade* 12) OR TI (twelfth grade*) OR AB (grade* 12) OR AB (twelfth grade*) OR KW (grade* 12) OR KW (twelfth grade*) OR SU (grade* 12) OR SU (twelfth grade*) OR TI ("High school*") OR AB ("High school*") OR KW ("High school*") OR SU ("High school*") OR TI Intermediate OR AB Intermediate OR KW Intermediate OR SU Intermediate OR TI ("Junior High") OR AB ("Junior High") OR KW ("Junior High") OR SU ("Junior High") OR TI (Kindergarten*) OR AB (Kindergarten*) OR KW (Kindergarten*) OR SU (Kindergarten*) OR TI ("Middle school*") OR AB ("Middle school*") OR KW ("Middle school*") OR SU ("Middle school*") OR TI (Preschool*) OR AB (Preschool*) OR KW (Preschool*) OR SU (Preschool*) OR TI ("Primary education") OR AB ("Primary education") OR KW ("Primary education") OR SU ("Primary education") OR TI ("Primary school*") OR AB ("Primary school*") OR KW ("Primary school*") OR SU ("Primary school*") OR TI ("Secondary education") OR AB ("Secondary education") OR KW ("Secondary education") OR SU ("Secondary education") OR TI ("secondary school*") OR AB ("secondary school*") OR KW ("secondary school*") OR SU ("secondary school*") OR TI ("secondary student*") OR AB ("secondary student*") OR KW ("secondary student*") OR SU ("secondary student*"))

student*) OR TI classroom* OR AB classroom* OR SW classroom* OR SU classroom* OR TI ((two OR 2) year-old*) OR AB ((two OR 2) year-old*) OR KW ((two OR 2) year-old*) OR SU ((two OR 2) year-old*) OR TI ((three OR 3) year-old*) OR AB ((three OR 3) year-old*) OR KW ((three OR 3) year-old*) OR SU ((three OR 3) year-old*) OR TI ((four OR 4) year-old*) OR AB ((four OR 4) year-old*) OR KW ((four OR 4) year-old*) OR SU ((four OR 4) year-old*) OR TI ((five OR 5) year-old*) OR AB ((five OR 5) year-old*) OR KW ((five OR 5) year-old*) OR SU ((five OR 5) year-old*) OR TI ((six OR 6) year-old*) OR AB ((six OR 6) year-old*) OR KW ((six OR 6) year-old*) OR SU ((six OR 6) year-old*) OR TI ((seven OR 7) year-old*) OR AB ((seven OR 7) year-old*) OR KW ((seven OR 7) year-old*) OR SU ((seven OR 7) year-old*) OR TI ((eight OR 8) year-old*) OR AB ((eight OR 8) year-old*) OR KW ((eight OR 8) year-old*) OR SU ((eight OR 8) year-old*) OR TI ((nine OR 9) year-old*) OR AB ((nine OR 9) year-old*) OR KW ((nine OR 9) year-old*) OR SU ((nine OR 9) year-old*) OR TI ((ten OR 10) year-old*) OR AB ((ten OR 10) year-old*) OR KW ((ten OR 10) year-old*) OR SU ((ten OR 10) year-old*) OR TI ((eleven OR 11) year-old*) OR AB ((eleven OR 11) year-old*) OR KW ((eleven OR 11) year-old*) OR SU ((eleven OR 11) year-old*) OR TI ((twelve OR 12) year-old*) OR AB ((twelve OR 12) year-old*) OR KW ((twelve OR 12) year-old*) OR SU ((twelve OR 12) year-old*) OR TI ((thirteen OR 13) year-old*) OR AB ((thirteen OR 13) year-old*) OR KW ((thirteen OR 13) year-old*) OR SU ((thirteen OR 13) year-old*) OR TI ((fourteen OR 14) year-old*) OR AB ((fourteen OR 14) year-old*) OR KW ((fourteen OR 14) year-old*) OR SU ((fourteen OR 14) year-old*) OR TI ((fifteen OR 15) year-old*) OR AB ((fifteen OR 15) year-old*) OR KW ((fifteen OR 15) year-old*) OR SU ((fifteen OR 15) year-old*) OR TI ((sixteen OR 16) year-old*) OR AB ((sixteen OR 16) year-old*) OR KW ((sixteen OR 16) year-old*) OR SU ((sixteen OR 16) year-old*) OR TI ((seventeen OR 17) year-old*) OR AB ((seventeen OR 17) year-old*) OR KW ((seventeen OR 17) year-old*) OR SU ((seventeen OR 17) year-old*) OR TI ((eighteen OR 18) year-old*) OR AB ((eighteen OR 18) year-old*) OR KW ((eighteen OR 18) year-old*) OR SU ((eighteen OR 18) year-old*) OR TI ("primary grade") OR AB ("primary grade") OR KW ("primary grade") OR SU ("primary grade") OR TI ("secondary grade") OR AB ("secondary grade") OR KW ("secondary grade") OR SU ("secondary grade"))

Ebsco/PsycInfo

Sökningen utfördes i juni 2016

Teknisk avgränsning: Peer-Reviewed, Publiceringsår från 2006

((TI Math* OR AB math* OR SU math* OR KW math*) OR ((SO math*) AND (TI (problem solving) OR AB (problem solving) OR TI reasoning OR AB reasoning OR TI modeling OR AB modeling OR TI modelling OR AB modelling)) OR TI Trigonometr* OR AB trigonometr* OR TI Geometr* OR AB geometr* OR TI Algebra* OR AB Algebra* OR TI Arithmetic* OR AB Arithmetic* OR TI Calculus OR AB Calculus OR (DE "Statistical Probability" OR DE "Probability") OR DE "Statistics" OR TI Numeracy OR AB Numeracy OR TI Number sense OR AB Number sense OR TI Number concepts OR AB Number concepts OR TI Multiplication OR AB Multiplication OR TI Subtraction OR AB Subtraction)

AND

(TI computer* OR AB computer* OR SU computer* OR KW computer* OR TI Digital* OR AB Digital* OR SU Digital* OR KW Digital* OR TI ICT OR AB ICT OR SU ICT OR KW ICT OR TI Software OR AB Software OR SU ((dynamic* OR education*) software) OR KW ((dynamic* OR education*) software) OR TI CAI OR AB CAI OR SU CAI OR KW CAI OR TI CAS OR AB CAS OR SU CAS OR KW CAS OR TI multimedia OR AB multimedia OR SU multimedia OR KW multimedia OR TI App OR AB App OR SU App OR KW App OR TI Phone OR AB Phone OR SU Phone OR KW Phone OR TI *pad OR AB *pad OR SU *pad OR KW *pad OR TI Tablet OR AB Tablet OR SU Tablet OR KW Tablet OR TI Applet OR AB Applet OR SU Applet OR KW Applet OR TI Notebook OR AB Notebook OR SU Notebook OR KW Notebook OR TI Netbook OR AB Netbook OR SU Netbook OR KW Netbook OR TI Hand Held OR AB Hand Held OR SU Hand Held OR KW Hand Held OR TI screen OR AB screen OR SU screen OR KW screen OR TI laptop OR AB laptop OR SU laptop OR KW laptop OR TI virtual OR AB virtual OR SU virtual OR KW virtual OR (TI technolog* (learn* OR information OR interacti* OR instruction* OR web-based OR environment OR tool OR device OR mobile OR dynamic*)) OR (AB technolog* (learn* OR information OR interacti* OR instruction* OR web-based OR environment OR tool OR device OR mobile OR dynamic*)) OR (KW technolog* (learn* OR information OR interacti* OR instruction* OR web-based OR environment OR tool OR device OR mobile OR dynamic*)) OR (SU technolog* (learn* OR information OR interacti* OR instruction* OR

web-based OR environment OR tool OR device OR mobile OR dynamic*)) OR ((TI game OR TI gaming) AND (interacti* OR instruction* OR video OR simulation OR reality OR mobile OR online)) OR ((AB game OR AB gaming) AND (interacti* OR instruction* OR video OR simulation OR reality OR mobile OR online)) OR ((KW game OR KW gaming) AND (interacti* OR instruction* OR video OR simulation OR reality OR mobile OR online)) OR ((SU game OR SU gaming) AND (interacti* OR instruction* OR video OR simulation OR reality OR mobile OR online)) OR (TI electronic* (TI environment OR TI tool OR TI device OR TI unit)) OR (AB electronic* (AB environment OR AB tool OR AB device OR AB unit)) OR (KW electronic* (environment OR tool OR device OR unit)) OR (SU electronic* (environment OR tool OR device OR unit)) OR (TI interacti* (TI video OR TI environment OR TI tool OR TI device OR TI unit)) OR (AB interacti* (AB video OR AB environment OR AB tool OR AB device OR AB unit)) OR (KW interacti* (KW video OR KW environment OR KW tool OR KW device OR KW unit)) OR (SU interacti* (SU video OR SU environment OR SU tool OR SU device OR SU unit)) OR (TI system (TI dynamic* OR TI electronic* OR TI interacti* OR TI intelligent OR)) OR (AB system (AB dynamic* OR AB electronic* OR AB interacti* OR AB intelligent)) OR (KW system (KW dynamic* OR KW electronic* OR KW interacti* OR KW intelligent)) OR (SU system (SU dynamic* OR SU electronic* OR SU interacti* OR SU intelligent)))

AND

(TI ("K-*") OR AB ("K-*") OR KW ("K-*") OR SU ("K-*") OR TI ("Pre-K*") OR AB ("Pre-K*") OR KW ("Pre-K*") OR SU ("Pre-K*") OR TI child OR AB child OR KW child OR SU child OR TI childhood OR AB childhood OR KW childhood OR SU childhood OR TI children OR AB children OR KW children OR SU children OR TI toddler* OR AB toddler* OR KW toddler* OR SU toddler* OR TI Adolescence OR AB Adolescence OR KW Adolescence OR SU Adolescence OR TI elementary OR AB elementary OR KW elementary OR SU elementary OR TI ("elementary secondary") OR AB ("elementary secondary") OR KW ("elementary secondary") OR SU ("elementary secondary") OR TI (grade* 1) OR TI (First grade*) OR AB (grade* 1) OR AB (First grade*) OR KW (grade* 1) OR KW (First grade*) OR SU (grade* 1) OR SU (First grade*) OR TI (grade* 2) OR TI (Second grade*) OR AB (grade* 2) OR AB (Second grade*) OR KW (grade* 2) OR KW (Second grade*) OR SU (grade* 2) OR SU (Second grade*) OR TI (grade* 3) OR TI (Third grade*) OR AB (grade* 3) OR AB (Third grade*) OR KW (grade* 3) OR KW (Third grade*) OR SU (grade* 3) OR SU (Third grade*) OR TI (grade* 4) OR TI (Fourth grade*) OR AB (grade* 4) OR AB (Fourth grade*) OR KW (grade* 4) OR KW (Fourth grade*) OR SU (grade* 4) OR SU (Fourth grade*) OR TI (grade* 5) OR TI (fifth grade*) OR AB (grade* 5) OR AB (fifth grade*) OR KW (grade* 5) OR KW (fifth grade*) OR SU (grade* 5) OR SU (fifth grade*) OR TI (grade* 6) OR TI (sixth grade*) OR AB (grade* 6) OR AB (sixth grade*) OR KW (grade* 6) OR KW (sixth grade*) OR SU (grade* 6) OR SU (sixth grade*) OR TI (grade* 7) OR TI (seventh grade*) OR AB (grade* 7) OR AB (seventh grade*) OR KW (grade* 7) OR KW (seventh grade*) OR SU (grade* 7) OR SU (seventh grade*) OR TI (grade* 8) OR TI (Eighth grade*) OR AB (grade* 8) OR AB (Eighth grade*) OR KW (grade* 8) OR KW (Eighth grade*) OR SU (grade* 8) OR SU (Eighth grade*) OR TI (grade* 9) OR TI (Ninth grade*) OR AB (grade* 9) OR AB (Ninth grade*) OR KW (grade* 9) OR KW (Ninth grade*) OR SU (grade* 9) OR SU (Ninth grade*) OR TI (grade* 10) OR TI (tenth grade*) OR AB (grade* 10) OR AB (tenth grade*) OR KW (grade* 10) OR KW (tenth grade*) OR SU (grade* 10) OR SU (tenth grade*) OR TI (grade* 11) OR TI (eleventh grade*) OR AB (grade* 11) OR AB (eleventh grade*) OR KW (grade* 11) OR KW (eleventh grade*) OR SU (grade* 11) OR SU (eleventh grade*) OR TI (grade* 12) OR TI (twelfth grade*) OR AB (grade* 12) OR AB (twelfth grade*) OR KW (grade* 12) OR KW (twelfth grade*) OR SU (grade* 12) OR SU (twelfth grade*) OR TI ("High school*") OR AB ("High school*") OR KW ("High school*") OR SU ("High school*") OR TI Intermediate OR AB Intermediate OR KW Intermediate OR SU Intermediate OR TI ("Junior High") OR AB ("Junior High") OR KW ("Junior High") OR SU ("Junior High") OR TI (Kindergarten*) OR AB (Kindergarten*) OR KW (Kindergarten*) OR SU (Kindergarten*) OR TI ("Middle school*") OR AB ("Middle school*") OR KW ("Middle school*") OR SU ("Middle school*") OR TI (Preschool*) OR AB (Preschool*) OR KW (Preschool*) OR SU (Preschool*) OR TI ("Primary education") OR AB ("Primary education") OR KW ("Primary education") OR SU ("Primary education") OR TI ("Primary school*") OR AB ("Primary school*") OR KW ("Primary school*") OR SU ("Primary school*") OR TI ("Secondary education") OR AB ("Secondary education") OR KW ("Secondary education") OR SU ("Secondary education") OR TI ("secondary school*") OR AB ("secondary school*") OR KW ("secondary school*") OR SU ("secondary school*") OR TI ("secondary student*") OR AB ("secondary student*") OR KW ("secondary student*") OR SU ("secondary student*") OR TI classroom* OR AB classroom* OR SW classroom* OR SU classroom* OR TI ((two OR 2) year-old*) OR AB ((two OR 2) year-old*) OR KW ((two OR 2) year-old*) OR SU

((two OR 2) year-old*) OR TI ((three OR 3) year-old*) OR AB ((three OR 3) year-old*) OR KW ((three OR 3) year-old*) OR SU ((three OR 3) year-old*) OR TI ((four OR 4) year-old*) OR AB ((four OR 4) year-old*) OR KW ((four OR 4) year-old*) OR SU ((four OR 4) year-old*) OR TI ((five OR 5) year-old*) OR AB ((five OR 5) year-old*) OR KW ((five OR 5) year-old*) OR SU ((five OR 5) year-old*) OR TI ((six OR 6) year-old*) OR AB ((six OR 6) year-old*) OR KW ((six OR 6) year-old*) OR SU ((six OR 6) year-old*) OR TI ((seven OR 7) year-old*) OR AB ((seven OR 7) year-old*) OR KW ((seven OR 7) year-old*) OR SU ((seven OR 7) year-old*) OR TI ((eight OR 8) year-old*) OR AB ((eight OR 8) year-old*) OR KW ((eight OR 8) year-old*) OR SU ((eight OR 8) year-old*) OR TI ((nine OR 9) year-old*) OR AB ((nine OR 9) year-old*) OR KW ((nine OR 9) year-old*) OR SU ((nine OR 9) year-old*) OR TI ((ten OR 10) year-old*) OR AB ((ten OR 10) year-old*) OR KW ((ten OR 10) year-old*) OR SU ((ten OR 10) year-old*) OR TI ((eleven OR 11) year-old*) OR AB ((eleven OR 11) year-old*) OR KW ((eleven OR 11) year-old*) OR SU ((eleven OR 11) year-old*) OR TI ((twelve OR 12) year-old*) OR AB ((twelve OR 12) year-old*) OR KW ((twelve OR 12) year-old*) OR SU ((twelve OR 12) year-old*) OR TI ((thirteen OR 13) year-old*) OR AB ((thirteen OR 13) year-old*) OR KW ((thirteen OR 13) year-old*) OR SU ((thirteen OR 13) year-old*) OR TI ((fourteen OR 14) year-old*) OR AB ((fourteen OR 14) year-old*) OR KW ((fourteen OR 14) year-old*) OR SU ((fourteen OR 14) year-old*) OR TI ((fifteen OR 15) year-old*) OR AB ((fifteen OR 15) year-old*) OR KW ((fifteen OR 15) year-old*) OR SU ((fifteen OR 15) year-old*) OR TI ((sixteen OR 16) year-old*) OR AB ((sixteen OR 16) year-old*) OR KW ((sixteen OR 16) year-old*) OR SU ((sixteen OR 16) year-old*) OR TI ((seventeen OR 17) year-old*) OR AB ((seventeen OR 17) year-old*) OR KW ((seventeen OR 17) year-old*) OR SU ((seventeen OR 17) year-old*) OR TI ((eighteen OR 18) year-old*) OR AB ((eighteen OR 18) year-old*) OR KW ((eighteen OR 18) year-old*) OR SU ((eighteen OR 18) year-old*) OR TI ("primary grade*") OR AB ("primary grade*") OR KW ("primary grade*") OR SU ("primary grade*") OR TI ("secondary grade*") OR AB ("secondary grade*") OR KW ("secondary grade*") OR SU ("secondary grade*") OR AG (childhood (birth-12 yrs)) OR AG (Preeschool age (2-5 yrs)) OR AG (School age (6-12 yrs)) OR AG (Adolescence (13-17 yrs)))

Thomson Reuters/Web Of Science

Sökningen utfördes i juni 2016

Teknisk avgränsning: Peer-Reviewed, Publiceringsår från 2006

((TS=math* OR (SO=math* AND TS=(problem solving)) OR (SO=math* AND TS=(reasoning)) OR (SO=math* AND TS=(model\$ing)) OR TS=trigonometr* OR (SO=math* AND TS=Geometr*) OR TS=Algebra* OR TS=Arithmetic* OR TS=Calculus OR TS=numeracy OR TS=(number sense) OR TS=(number concepts) OR TS=multiplication OR TS=subtraction))

AND

((TS=computer* OR TS=digital* OR TS=ICT OR TS=software OR TS=CAI OR TS=CAS OR TS=multimedia OR TS=App OR TS=Phone OR TS=*pad OR TS=tablet OR TS=applet OR TS=Notebook OR TS=Netbook OR TS=(Hand held) OR TS=screen OR TS=laptop OR TS=virtual OR TS=(game OR gaming) OR TS=(technolog* NEAR/5 learn*) OR TS=(technolog* NEAR/5 information) OR TS=(technolog* NEAR/5 interacti*) OR TS=(technolog* NEAR/5 instruction*) OR TS=(technolog* NEAR/5 web-based) OR TS=(technolog* NEAR/5 environment) OR TS=(technolog* NEAR/5 tool) OR TS=(technolog* NEAR/5 device) OR TS=(technolog* NEAR/5 mobile) OR TS=(technolog* NEAR/5 dynamic*) OR TS=(electronic* NEAR/5 environment) OR TS=(electronic* NEAR/5 tool) OR TS=(electronic* NEAR/5 device) OR TS=(electronic* NEAR/5 unit) OR TS=(interacti* NEAR/5 video) OR TS=(interacti* NEAR/5 environment) OR TS=(interacti* NEAR/5 tool) OR TS=(interacti* NEAR/5 device) OR TS=(interacti* NEAR/5 unit) OR TS=(system NEAR/5 (dynamic* OR electronic* OR interacti* OR intelligent))))

AND

((TS=classroom OR TS=("High School*") OR TS=("Junior High") OR TS=("Middle school*") OR TS=(Kindergarten*) OR TS=(Preschool*) OR TS=("Primary school*") OR TS=("Primary education") OR TS=("Primary student*") OR TS=("Primary grade*") OR TS=(elementary school*) OR TS=(elementary education*) OR TS=(elementary student*) OR TS=(elementary NEAR/2 grade*) OR TS=(secondary school*) OR TS=(secondary education*) OR TS=(secondary grade*) OR TS=(secondary student*) OR TS=(elementary NEAR/1 secondary) OR TS=("grade* 1" AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=(First NEAR/2 grade*) OR TS=("grade* 2" AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=(Second NEAR/2 grade*) OR TS=("grade* 3" AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=(Third NEAR/2 grade*) OR TS=("grade* 4" AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=(Fourth NEAR/2 grade*) OR TS=("grade* 5" AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=(Fifth NEAR/2 grade*)

OR TS=("grade* 6" AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=(Sixth NEAR/2 grade*) OR TS=("grade* 7" AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=(Seventh NEAR/2 grade*) OR TS=("grade* 8" AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=(Eighth NEAR/2 grade*) OR TS=("grade* 9" AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=(Ninth NEAR/2 grade*) OR TS=("grade* 10" AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=(Tenth NEAR/2 grade*) OR TS=("grade* 11" AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=(Eleventh NEAR/2 grade*) OR TS=("grade* 12" AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=(Twelfth NEAR/2 grade*) OR TS=((two NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((three NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((four NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((five NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((six NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((seven NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((eight NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((nine NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((ten NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((eleven NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((twelve NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((thirteen NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((fourteen NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((fifteen NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((sixteen NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((seventeen NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((eighteen NEAR/1 "year-old*") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((child OR children OR childhood) AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((toddler*) AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((Adolescence) AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((Intermediate) AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((K-12") AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*)) OR TS=((pre-service) AND (education* OR school* OR teach* OR student* OR learn* OR pedagog*))

Libris (libris.kb.se)

Sökningen utfördes i september 2016

Teknisk avgränsning: År 2006-2016

(matematik* OR problemlösning* OR "matematisk* resonemang" OR aritmeti* OR TREE:Tb OR geometri* OR algebra* OR TREE:Tc OR TREE:Eabt OR taluppfattning OR räkning OR mathematics) AND (dator* OR datavetenskap OR digital* OR IKT OR multimedia OR mobil* OR teknolog* OR elektroniska spel OR virtual OR online* OR interaktiv* OR dynamisk* OR computer* OR ICT OR software OR CAI OR CAS OR App* OR phone* OR ipad* OR applet* OR tablet* OR game* OR gaming OR interacti* OR dynamic*) AND TREE:Ea Pedagogik AND mat:(avhandling)

SwePub (swepub.kb.se)

Sökningen utfördes i september 2016

Teknisk avgränsning: År 2006-2016

(matemati* OR geometr* OR problemlösning* OR "matematisk* resonemang" OR algebra* OR aritmeti* OR taluppfattning OR räkning OR hsvkat:10106 OR math* OR arithmetic* OR (tit:math* AND problem solving) OR (tit:math* AND reasoning) OR Numeracy OR Number sense OR Number concepts OR calculus OR (tit:math* AND function*)) AND (dator* OR datavetenskap OR digital* OR IKT OR multimedia OR mobil* OR teknolog* OR elektroniska spel OR virtual OR online* OR interaktiv* OR dynamisk* OR computer* OR ICT OR software OR CAI OR CAS OR App* OR phone* OR ipad* OR applet* OR tablet* OR game* OR gaming OR interacti* OR dynamic*) AND (hsvkat:503 OR hsvkat:508 OR hsvkat:30105 OR hsvkat:501 OR utbildningsvetenskap OR Media OR neurovetenskap OR psykologi) AND (((mat:dok OR mat:art) AND conttype:ref) OR (mat:dok))

DiVA (diva-portal.org)

Sökningen utfördes i september 2016 men gjordes om i januari 2017 på grund av tekniska problem med DiVA.

Teknisk avgränsning: År 2006-2016

Fritext: math*

Ämnesområde: Utbildningsvetenskap

Publikationstyp: artiklar AND Typ av innehåll: refereegranskat

Fritext: math*

Ämnesområde: Utbildningsvetenskap

Publikationstyp: Dissertation OR Doktorsavhandling (monografi) OR Doktorsavhandling (sammanläggning)

Fritext: math*

Ämnesområdet: Neurovetenskap

Publikationstyp: artiklar AND Typ av innehåll: refereegranskat

Fritext: math*

Ämnesområdet: Neurovetenskap

Publikationstyp: Dissertation OR Doktorsavhandling (monografi) OR Doktorsavhandling (sammanläggning)

Fritext: math*

Ämnesområdet: Psykologi

Publikationstyp: artiklar AND Typ av innehåll: refereegranskat

Fritext: math*

Ämnesområdet: Psykologi

Publikationstyp: Dissertation OR Doktorsavhandling (monografi) OR Doktorsavhandling (sammanläggning)

Forskningsdatabasen (forskningsdatabasen.dk)

Sökningen utfördes i september 2016

Teknisk avgränsning: År 2006-2016

Teknisk avgränsning sökning 1: Type: Journal article AND Review Type: Peer Review

Teknisk avgränsning sökning 2: Type: Thesis PhD OR Thesis Doctoral

(matemati* OR problemlösning* OR ræsonnement OR aritmeti* OR geometr* OR algebra* OR sandsynlighed OR mathematics OR arithmeti* OR calculus) AND (computer* OR datalogi OR digital* OR IKT OR multimedier OR mobil* OR teknolog* OR (elektroniska spil) OR online* OR interaktiv* OR dynamisk* OR virtuel* OR ICT OR software OR CAI OR CAS OR App* OR phone* OR ipad* OR applet* OR tablet* OR game* OR gaming OR interacti* OR dynamic*) AND (classroom* OR class OR wholeclass OR pupil* OR student* OR tutor OR teach* OR practice* OR klass* OR undervisning* OR lærer* OR elev* OR lektion* OR uddannelse* OR didactic* OR education* OR school*)

Idunn (idunn.no)

Manuell genomläsning av samtliga titlar som återfanns genom följande söksträng i de förvalda tidskrifterna genomfördes i september 2016.

Teknisk avgränsning: Årgång från och med 2006, Årgång till och med 2016

Tidskrifter: Nordic Journal of digital literacy, Nordic studies in Education, Norsk pedagogisk tidsskrift, Tidsskrift for kjønnsforskning

matemati* OR problemløsning* OR resonneringsmetode* OR aritmeti* OR geometr* OR algebra* OR sannsynlighet OR mathematics

Skolporten (skolporten.se)

Sökningen genomfördes i september 2016. Genomläsning av samtliga titlar sorterade under ämneskategori "matematik".

NB-ECEC (<http://nb-ecec.org>)

Sökningen genomfördes i september 2016. Genomläsning av samtliga titlar sorterade under ämneskategorierna "matematik" och "Digitala verktyg" samt fritext "matemat*" och "ikt".

Kontrollsökning

En ytterligare litteratursökning genomfördes i augusti 2017 i syfte att kontrollera att relevanta studier inte missats. Sökningen gjordes i den matematikdidaktiska databasen MathEduc och söksträngen utformades specifikt för att hitta experimentella studier. Ett antal ytterligare vetenskapliga tidskrifter handsöktes vid samma tillfälle. Val av databas samt urvalet av tidskrifter baserades på rekommendationer från forskare inom ämnesfältet och sammanföll också med rankade tidskrifter från "Norska listan".

Processgången och resultatet av kontrollsökningen redovisas separat nedan.

Källor

Internationella vetenskapliga ämnesdatabaser

Sökningen genomfördes i augusti 2017. Exakta söksträngar redovisas nedan.

- FIZ Karlsruhe/MathEducDatabase

Vetenskapliga tidskrifter

Sökningen genomfördes i augusti 2017.

Urvalet av tidskrifter baserades på rekommendationer från forskare inom ämnesfältet och sammanföll också med rankade tidskrifter från "Norska listan". Eftersom alla rekommenderade tidskrifter fanns indexerade i de databaser som använts handsöktes endast volymer från 2016 och 2017.

- Educational Studies in Mathematics, Vol 91 – Vol 92
- Journal for Research in Mathematics Education, Vol. 47 – Vol. 48
- Nordisk matematikdidaktikk (NOMAD), Vol. 21 – Vol 22
- Technology, Knowledge and Learning (formerly: International Journal of Computers for Mathematical Learning), Vol. 21 – Vol. 22
- ZDM: The International Journal on Mathematics education, Vol. 48 – Vol. 49

Redovisning av exakta söksträngar

FIZ Karlsruhe/MathEducDatabase

Sökningen genomfördes i augusti 2017

Följande kategorier genomsöktes. Vissa är begränsades med sökorden nedan.

R20: Applications in mathematics and mathematical education (e.g. : computer algebra)
[computer aided instruction (CAI) see U50; user programs see R70]

U50: Programmed instruction, computer assisted instruction (CAI, intelligent tutor systems, courseware design, e-learning) [educational software see U70]

U60: Manipulative materials and their use in the classroom (visualizations, teaching aids, models, educational games, worksheets. Teaching in laboratories)[games see also A90]

N80: Mathematical software. Collections of computer programs
[software for special disciplines see each discipline; computer as a teaching medium see U70]

Teknisk avgränsning: Publiceringsår 2006–2017, Journal

cc:R20 & (py:2012-2017 dt:j)

cc:R20 & ab:experiment* & (py:2002-2011 dt:j)

cc:R20 & ab:rct & (py:2002-2011 dt:j)

cc:R20 & ab:cross* & (py:2002-2011 dt:j)

cc:R20 & ab:random* & (py:2002-2011 dt:j)

cc:R20 & ab:quasi* & (py:2002-2011 dt:j)

cc:R20 & ab:effect* & (py:2002-2011 dt:j)

cc:U50 & any:experiment* & (py:2002-2017 dt:j)

cc:U50 & any:rct & (py:2002-2017 dt:j)

cc:U50 & any:random* & (py:2002-2017 dt:j)

cc:U50 & any:quasi* & (py:2002-2017 dt:j)

cc:U50 & any:effect* & (py:2002-2017 dt:j)

cc:U60 & (py:2012-2017 dt:j)

cc:N80 & any:experiment* & (py:2002-2017 dt:j)

cc:N80 & any:rct & (py:2002-2017 dt:j)

cc:N80 & any:random* & (py:2002-2017 dt:j)

cc:N80 & any:quasi* & (py:2002-2017 dt:j)

cc:N80 & any:cross* & (py:2002-2017 dt:j)

cc:N80 & any:effect* & (py:2002-2017 dt:j)

Flödesschema och resultat kontrollsökning

MathEducation

Antal träffar Math Educ	Antal inkluderade efter titel/abstract	Antal kvar efter dubblottkoll mot tidigare ref	Antal inkluderade efter fulltext	Antal ej hittade i fulltext
551	64	39	2	4

Inkluderade studier

De inkluderade studierna bedömdes av projektledaren inte påverka översiktens slutsatser. På grund av den knappa tiden till publicering beslöt därför projektgruppen att inte redovisa dessa studier i översiktens tabeller, kartläggningar, studiebeskrivningar mm.

Chiu, T. K. F., & Mok, I. A. C. (2017). Learner expertise and mathematics different order thinking skills in multimedia learning. *Comput. Educ. (Exeter)* 107, 147-164 (2017). doi:doi:10.1016/j.compedu.2017.01.008

Su Ding, K., & Hong Kian, S. (2006). WPE: a mathematical microworld for learning probability. *J. Sci. Math. Educ. Southeast Asia* 29, No. 2, 43-68 (2006).

Handsökning vetenskapliga tidskrifter

Antal inkluderade efter titel/abstract	Antal kvar efter dubblettkoll mot tidigare ref	Antal inkluderade efter fulltext
3	2	0