

Bilaga 1. Litteratursökning

Arbetet med en systematisk översikt kännetecknas av en omfattande och systematisk sökning av forskningslitteratur. Detta är en detaljerad beskrivning av den sökstrategi som använts i den systematiska översikten *Teknikutvecklingsprocessen – lärande i grund- och gymnasieskolans teknikundervisning*. Sökstrategin formuleras bland annat med hänsyn till lämpliga informationskällor samt vilka sökord och begränsningar som ska användas i de olika sökningarna. För att ha möjlighet att hitta forskning med olika aspekter och infallsvinklar relaterat till översiktens frågeställning har utgångspunkten i sökstrategin varit att genomföra en bred litteratursökning i flera databaser. Tabell A1 visar en översikt över de källor och söktekniker som använts.

Redovisning av de exakta sökningarna i respektive källa följer nedan under rubrikerna

- Sökningar i internationella databaser.
- Sökningar i nordiska databaser.

Tabell A1. Översikt över litteratursökningen

KÄLLA	ÄMNESOMRÅDE	SÖKTEKNIK
Internationella vetenskapliga databaser		
ERIC	Utbildning	Blocksökning/söksträng
Education Source	Utbildning	Blocksökning/söksträng
PsycINFO	Psykologi och pedagogik	Blocksökning/söksträng
Scopus	Ämnesövergripande	Blocksökning/söksträng
Nordiska vetenskapliga databaser		
SwePub (Sverige)	Ämnesövergripande	Blocksökning/söksträng
JUULI (Finland)	Ämnesövergripande	Blocksökning/söksträng
Oria.no (Norge)	Ämnesövergripande	Blocksökning/söksträng
Research Portal Denmark	Ämnesövergripande	Blocksökning/söksträng

Sökningar i internationella databaser

Tabell A2. Sökning i Scopus

Datum: 2023-08-23

SÖKBLOCK	SÖKSTRÄNG	ANTAL TRÄFFAR
Block A: Teknikundervisning	(TITLE(technology OR engineer* OR stes OR stem OR steam)) OR (ABS({technology education} OR {technology teaching} OR {engineering education} OR {design and technology} OR {engineering design} OR {science technology environment society} OR stes OR stem OR steam)) OR (KEY(technology OR engineer* OR stes OR stem OR steam))	

Block B: Teknikutvecklingsprocessen	(TITLE((design AND (process OR product OR engineer* OR think* OR technology)) OR {design-without-make} OR {technical solution})) AND ABS((design W/3 (process OR product OR engineer* OR think*)) OR {design-without-make} OR {design and technology project work} OR {technical solution})) AND KEY((design AND (process OR product OR engineer* OR think* OR technology)) OR {design-without-make} OR {technical solution}))
--	--

Block C: Skolsammanhang	(TITLE(student* OR pupil* OR teach* OR instruct* OR learn* OR school OR class* OR kindergarten) OR ABS((student* OR pupil* OR teach* OR instruct* OR learn* OR school OR class*) AND (K-* OR (grade* 1*) OR (first grade*) OR (grade* one) OR (grade* 2*) OR (second grade*) OR (grade* two) OR (grade* 3*) OR (third grade*) OR (grade* three) OR (grade* 4*) OR (four* grade*) OR (grade* 5*) OR (fifth grade*) OR (grade* five) OR (grade* 6*) OR (six* grade*) OR (grade* 7*) OR (seven* grade*) OR (grade* eight*) OR (grade* 8*) OR (ninth grade*) OR (grade* nine) OR (grade* 9*) OR (ten* grade*) OR (grade* 10*) OR (eleven* grade*) OR (grade* 11*) OR (twel* grade*) OR (grade* 12*) OR {junior high} OR {high school} OR elementary OR primary grade OR intermediate OR middle OR secondary OR lyce* OR {sixth form} OR {lower sixth} OR {upper sixth} OR {key stage 5} OR {junior college} OR {upper secondary} OR {lower secondary} OR kindergarten)) OR KEY((student* OR pupil* OR teach* OR instruct* OR learn* OR school OR class*) AND (K-* OR (grade* 1*) OR (first grade*) OR (grade* one) OR (grade* 2*) OR (second grade*) OR (grade* two) OR (grade* 3*) OR (third grade*) OR (grade* three) OR (grade* 4*) OR (four* grade*) OR (grade* 5*) OR (fifth grade*) OR (grade* five) OR (grade* 6*) OR (six* grade*) OR (grade* 7*) OR (seven* grade*) OR (grade* eight*) OR (grade* 8*) OR (ninth grade*) OR (grade* nine) OR (grade* 9*) OR (ten* grade*) OR (grade* 10*) OR (eleven* grade*) OR (grade* 11*) OR (twel* grade*) OR (grade* 12*) OR {junior high} OR {high school} OR elementary OR primary grade OR intermediate OR middle OR secondary OR lyce* OR {sixth form} OR {lower sixth} OR {upper sixth} OR {key stage 5} OR {junior college} OR {upper secondary} OR {lower secondary} OR kindergarten)))
----------------------------	--

Sökning	A AND B AND C	2 086
Begränsningar	Publication year: 2003–2024 Document type: Article	585

TITLE=Article title
ABS=Abstract
KEY=Keywords
*=Trunkering
W/=Within

Sökning i ERIC

Plattform: EBSCOhost

Datum: 2023-08-23

SÖKBLOCK	SÖKSTRÄNG	ANTAL
Block A: Teknikundervisning	TI (technology OR engineer* OR stes OR stem OR steam) OR AB ("technology education" OR "technology teach*" OR "engineering education" OR "design and technology" OR "engineering design" OR "science technology environment society" OR stes OR stem OR steam)	

OR DE ("Technology Education" OR "Engineering Education" OR "STEM Education" OR "Science and Society")

Block B: Teknikutvecklingsprocessen	TI (((design) AND (process OR product OR engineer* OR thinking OR technology)) OR ("design-without-make") OR ("technical solution*")) OR AB (((design) N3 (process OR product OR engineer* OR thinking)) OR ("design-without-make") OR ("design and technology project work") OR ("technical solution*")) OR DE ("Building Design")	
Block C: Skolsammanhang	TI (student* OR pupil* OR teach* OR instruct* OR learn* OR kindergarten OR school OR class*) OR AB (student* OR pupil* OR teach* OR instruct* OR learn* OR kindergarten OR school OR class*) OR DE ("Teaching Methods")	
Sökning	A AND B AND C	3 298
Begränsningar	Peer Reviewed Date Published: 20030101–20231231 Source Types: Academic Journals Education Level: Elementary Education, Elementary Secondary Education, Grade 1, Grade 2, Grade 3, Grade 4, Grade 5, Grade 6, Grade 7, Grade 8, Grade 9, Grade 10, Grade 11, Grade 12, High School Equivalency Programs, High Schools, Intermediate Grades, Junior High Schools, Middle Schools, Postsecondary Education, Primary Education, Secondary Education	1 589 Uppdatering 20240731: 1 843

TI=Title
AB=Abstract
DE=Descriptor
*=Trunkering
N=Near

Sökning i Education Source

Plattform: EBSCOHost

Datum: 2023-08-23

SÖKBLOCK	SÖKSTRÄNG	ANTAL TRÄFFAR
Block A: Teknikundervisning	TI (technology OR engineer* OR stes OR stem OR steam) OR AB ("technology education" OR "technology teach*" OR "engineering education" OR "design and technology" OR "engineering design" OR "science technology environment society" OR stes OR stem OR steam) OR DE ("Technology education (Elementary)" OR "Technology education (Middle school)" OR "Technology education (Secondary)" OR "STEM education" OR "Science, Technology & Society (Educational movement)" OR "STEAM education")	
Block B: Teknikutvecklingsprocessen	TI (((design) AND (process OR product OR engineer* OR think* OR technology)) OR ("design-without-make") OR ("technical solution*")) OR AB (((design) N3 (process OR product OR engineer* OR think*)) OR ("design-without-make") OR ("design and technology project work") OR ("technical solution*"))	
Block C: Skolsammanhang	TI (student* OR pupil* OR teach* OR instruct* OR learn* OR kindergarten OR school OR class*) OR AB (student* OR pupil* OR teach* OR instruct* OR learn* OR kindergarten OR school OR class*)	

OR DE ("Teaching methods" OR "Secondary school students" OR "School children" OR "Elementary education" OR "Primary education" OR "High school students" OR "Kindergarten"))

Sökning	A AND B AND C	3 911
Begränsningar	Peer Reviewed Source Types: Academic Journals Published Date: 20030101–20231231	2 855 2024-07-31: 3 308

Sökning i *Education Source*

2023-08-23

	DE ("Engineering design education in elementary schools" OR "Design education in elementary schools" OR "Engineering design education in secondary schools" OR "Design education in secondary schools")	89
Begränsningar	Peer Reviewed Source Types: Academic Journals Published Date: 20030101–20231231	45

Sökning i *APA PsycInfo*

Plattform: EBSCOHost

Datum: 2023-08-23

SÖKBLOCK	SÖKSTRÄNG	ANTAL TRÄFFAR
Block A: Teknikundervisning	TI (technology OR engineer* OR stes OR stem OR steam) OR AB ("technology education" OR "technology teach*" OR "engineering education" OR "design and technology" OR "engineering design" OR "science technology environment society" OR stes OR stem OR steam) OR DE ("STEM" OR "Engineering")	
Block B: Teknikutvecklingsprocessen	TI (((design) AND (process OR product OR engineer* OR think* OR technology)) OR ("design-without-make") OR ("technical solution*")) OR AB (((design) N3 (process OR product OR engineer* OR think*)) OR ("design-without-make") OR ("design and technology project work") OR ("technical solution*")) OR DE ("Product Design")	
Block C: Skolsammanhang	TI (student* OR pupil* OR teach* OR instruct* OR learn* OR kindergarten OR school OR class*) OR AB (student* OR pupil* OR teach* OR instruct* OR learn* OR kindergarten OR school OR class*) OR DE ("Teaching methods" OR "Middle School Students" OR "Primary School Students" OR "Junior High School Students" OR "Intermediate School Students" OR "Kindergarten Students" OR "High School Students" OR "Elementary School Students" OR "Intermediate School Students" OR "Primary School Students")	
Sökning	A AND B AND C	1 098
Begränsningar	Publication Year: 2003–2023 Source Types: Academic Journals	586

Sökningar i nordiska databaser

Sökning i SwePub

2023-08-24

BLOCK	SÖKSTRÄNG	ANTAL TRÄFFAR
Block A: Teknikundervisning	(teknikundervisning OR teknikämne* OR teknikdidaktik OR teknikkunskande) OR (teknik SAME (undervis* OR skol* OR elev* OR lär*))	
Block B: Begränsningar	Typ av innehåll: tidskriftsartiklar, doktorsavhandlingar	
Sökning	Block A AND Block B	443

Sökning i SwePub

2023-08-25

BLOCK	SÖKSTRÄNG	ANTAL TRÄFFAR
Block A: Teknikundervisning	("technology education" OR "technology teach*" OR "engineering education" OR "engineering design" OR "science technology environment society" OR stem OR steam)	
Block B: Teknikutvecklingsprocessen	(design OR "technical solution*")	
Block C: Skolsammanhang	(student* OR pupil* OR teach* OR instruct* OR learn* OR kindergarten OR school OR class*)	
Block D: Begränsningar	Typ av publikation: Tidskriftsartiklar, avhandlingar	
Sökning	Block A AND Block B AND Block C AND Block D	287

Sökning i JUULI

2023-08-25

BLOCK	SÖKSTRÄNG	ANTAL TRÄFFAR
Block A: Teknikundervisning	Alla fält: teknik*	
Block B: Begränsningar	Publikationstyp: artiklar, avhandlingar Språk: Svenska	
Sökning	Block A AND Block B	2
Block A: Teknikundervisning	Alla fält: slöjd*	
Block B: Begränsningar	Publikationstyp: artiklar, avhandlingar Språk: Svenska	
Sökning	Block A AND Block B	7
TOTALT		9

Sökning i Oria

2023-08-28

SÖKBLOCK	SÖKSTRÄNG	ANTAL TRÄFFAR
Block A: Teknikundervisning	Alle felt: ((teknik* OR teknolog* OR stem) AND Alle felt: (klasserom* OR undervis* OR didakti* OR lærOR elev*))	
Block B: Begränsningar	Materialtype: Artikler, Doctoral Thesis Årstall: 2003-2023 Språk: Norsk	
Sökning	Block A AND Block B	307

Sökning i kb.dk

2023-08-28

SÖKBLOCK	SÖKTERMER	ANTAL TRÄFFAR
Block A: Teknikundervisning	Any field: (teknik* OR natur* OR teknolog* OR STEM) AND (lær* OR pædagog* OR klass* OR undervis* OR elev*)	
Block B: Begränsningar:	Resource type: Articles Show only: from peer reviewed journals Language: Danish Creation date: 2003-2023	
Sökning	Block A AND Block B	726