

Fritt Fram 3

Temabok 4



Bliss-utgave

2007

Oversatt til Bliss av Astri Holgersen
Tilrettelagt av Trøndelag kompetansesenter
ved Jørn Østvik

Utarbeidet med økonomiske midler fra
Utdanningsdirektoratet

Temabok 4

Fritt Fram 3

Bliss-utgave

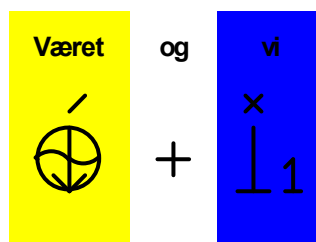
Dette er en Bliss-utgave av fjerde temabok i en serie på seks temabøker knyttet til læreverket *Fritt Fram* for 3. klasse, utgitt av Aschehoug forlag. *Fritt Fram* integrerer samfunnsfag og natur- og miljøfag. Temabøkene er laget for elever med behov for forenklet lærestoff og gjengir hovedtemaene i grunnboka.

Hovedtemaene i denne temaboken er: Været og vi
 Elver


Bliss-utgaven er utgitt med tillatelse fra Aschehoug forlag, og kan fritt lastes ned fra ASK-loftet (www.ask-loftet.no) og distribueres.

 Trøndelag
kompetansesenter
Statlig spesialpedagogisk støttesystem
www.statped.no/trondelag


Levanger, november 2007.




Skyer og regn




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Mari og Mats ser på himmelen.




+




⊗

⊗


⊗



Mari og Mats ser skyer på himmelen.




+




⊗

⊗


⊗



⊗




En sky ser ut som en skilpadde.



⊗

⊗


⊗




Ser du skilpadden?

⊗

⊗




En sky ser ut som en snegl.




⊗

⊗

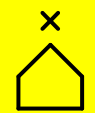


Sneglen har hus på ryggen.




⊗

⊗



⊗



Ser	du	sneglen?
x ⊙	12	— /

Mørke	byge	skyer
↙ ⊙ ^v	↕	ⓧ

Haug	skyer
△ I	ⓧ

Skyer	er	forskjellig.
ⓧ	ⓧ ⊙	≠

Noen	skyer	er	lyse.
∨ ·	ⓧ	ⓧ ⊙	∨ ⓧ ⊙

Noen	skyer	er	mørke.
∨ · |	ⓧ	ⓧ ⊙	↙ ⊙^v

Noen	skyer	er	små.
v	x	))	v
÷	ℓ	⊖	I

Noen	skyer	er	store.
v	x	))	v
÷	ℓ	⊖	I

1. Sola varmer opp vannet på jorda.

Diagram 1 shows the process of solar radiation warming water on Earth. The sun is represented by a circle with a slash, the warming process by a red box with wavy arrows and a sun symbol, water by a wavy line, and the Earth by a circle with a slash.

2. Vannet blir til vann -damp.

Diagram 2 shows water evaporating into steam. Water is a wavy line, the process is a red box with an arrow and a sun symbol, and steam is a wavy line with an upward arrow.

3. Vanndampen stiger opp i lufta.

Diagram 3 shows water vapor rising into the air. Water vapor is a wavy line with an upward arrow, the rising process is a red box with an upward arrow and a sun symbol, and air is a square with a dot.

4. Oppe i lufta blir vanndampen avkjølt.

Diagram 4 shows water vapor cooling in the air. Up is an upward arrow, air is a square with a dot, the cooling process is a red box with an arrow and a sun symbol, water vapor is a wavy line with an upward arrow, and cooled is a green box with a downward arrow and a square.

5. Vanndampen blir til små vanndråper.

Diagram 5 shows water vapor condensing into small droplets. Water vapor is a wavy line with an upward arrow, the process is a red box with an arrow and a sun symbol, small is a green box with a downward arrow, and droplets are a wavy line with a dot.

6. Vanndråpene samler seg til skyer.

Diagram 6 shows water droplets gathering into clouds. Droplets are a wavy line with a dot, the gathering process is a red box with a sun symbol and a starburst, and clouds are a wavy line with a sun symbol.

7. Regn -skyer er fulle av små vanndråper.

Diagram 7 shows rain falling from clouds. Rain is a downward arrow, clouds are a wavy line with a sun symbol, the process is a red box with a sun symbol, full is a green box with a downward arrow, of is a green box with a downward arrow, and droplets are a wavy line with a dot.

8. **Vanndråpene** **faller** **mot** **bakken.**

Hvordan **er** **været** **hos deg** nå?

Solskinn **Overskyet** **Regn** **-vær**

mandag

tirsdag

onsdag

torsdag

fredag

Q 5

lørdag

Q 6

søndag

Q 7

Lyn og torden

⚡ + ⚡

Noen skyer blir veldig tykke og veldig mørke.

v
 ∴
 x
 ⤴ ⊕
 xx
 v
 † †
 +
 xx
 1 ⊙
 v

Skyene kan bli torden -skyer.

x
 ⤴
 x
 ∴
 v
 x
 ⤴ ⊕
 ⚡
 x
 ⤴

Vi kan få torden -vær.

x
 ⊥ 1
 x
 ∴
 v
 x
 ⤴
 ⤵
 ⚡
 ⊕

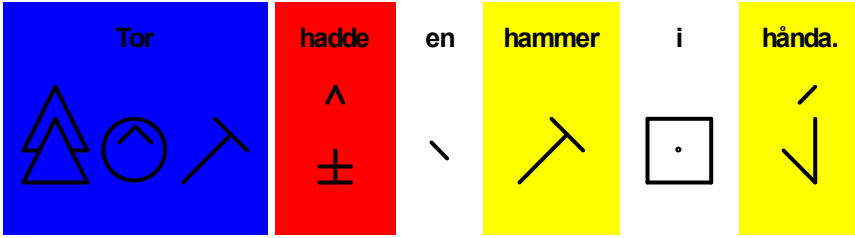
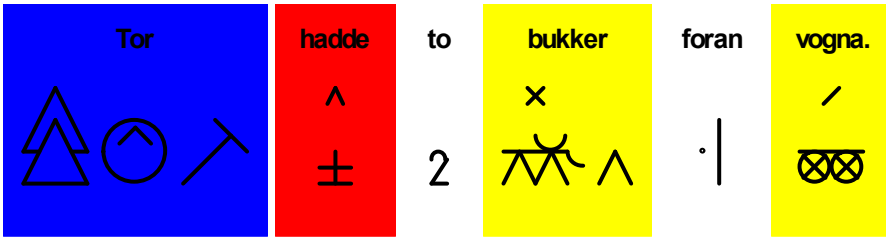
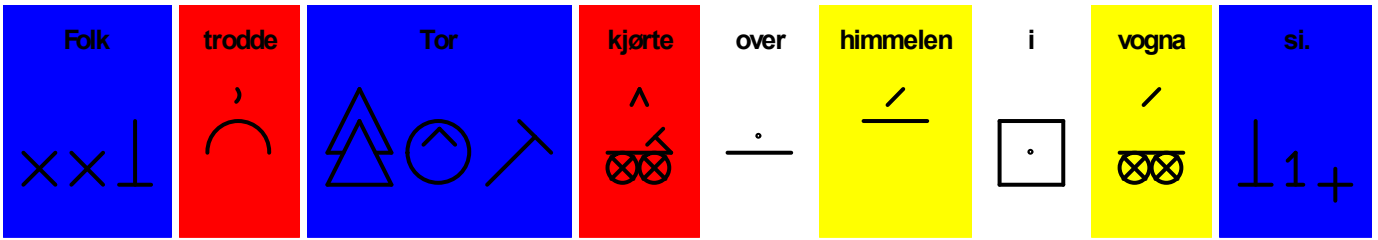
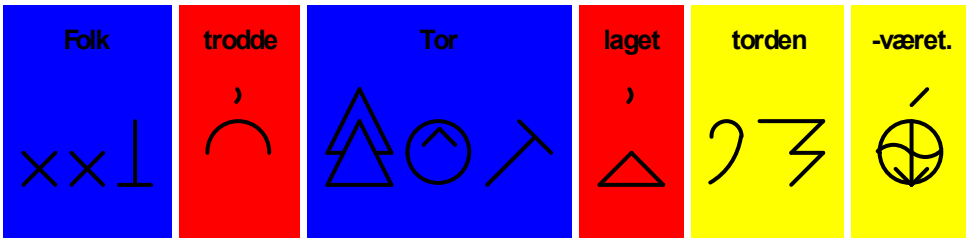
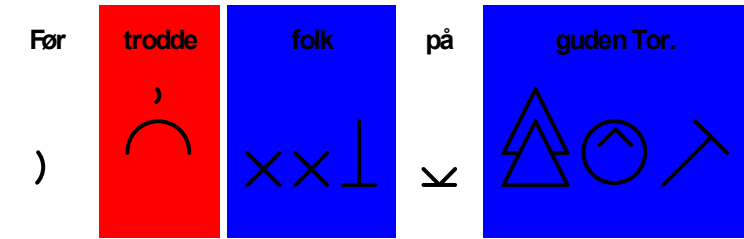
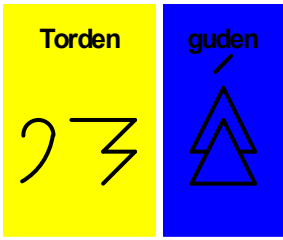
Les	ordene.
) (○ □	x / ÷ ☉

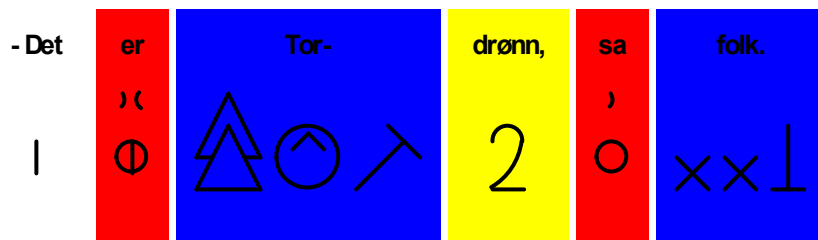
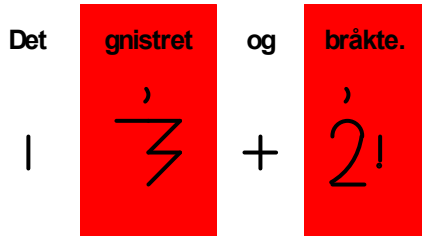
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x /	x / ÷ ☉

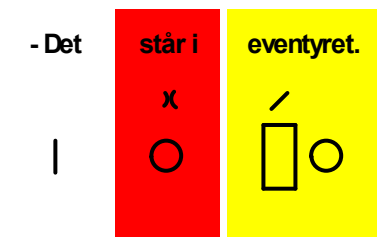
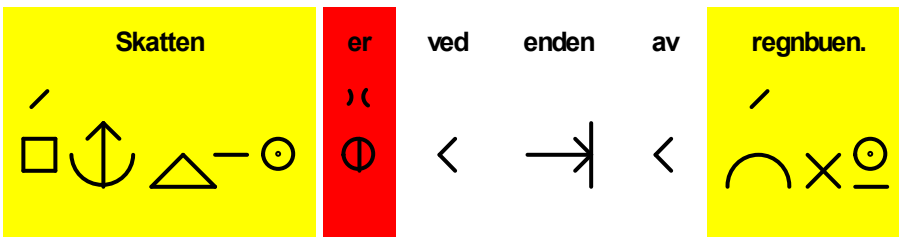
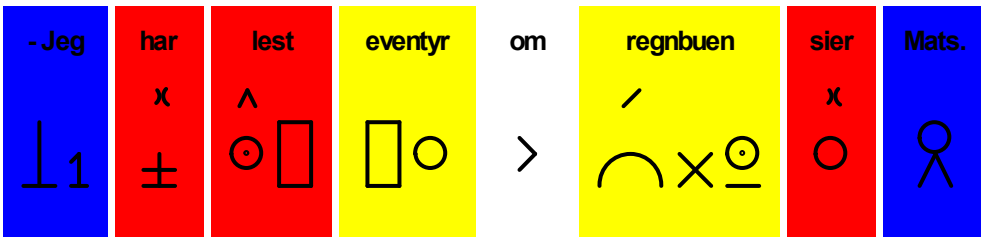
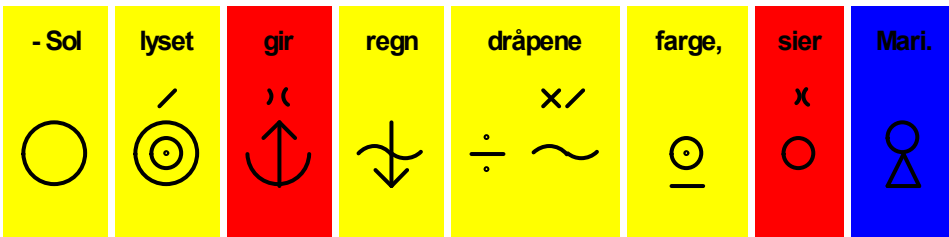
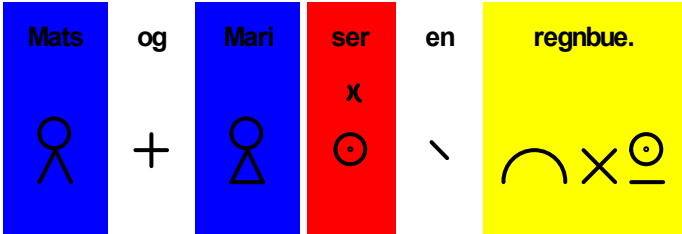
regn	-skyer
⚡	☉

torden	-skyer
☉ ⚡	☉

vanndråper
x ~ ÷ ~







Lag et fint bilde av en regnbue.

Tegn skatten ved enden av regnbuen.

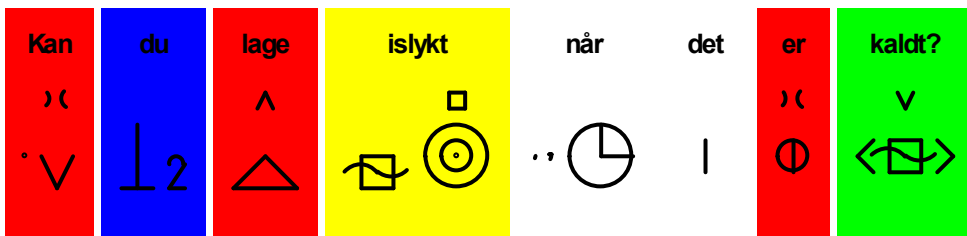
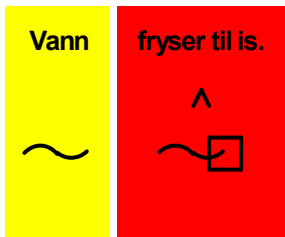
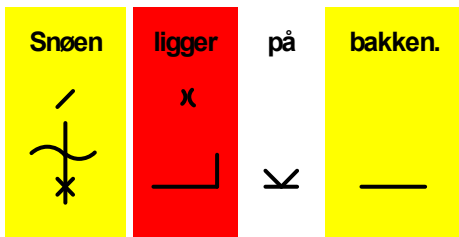
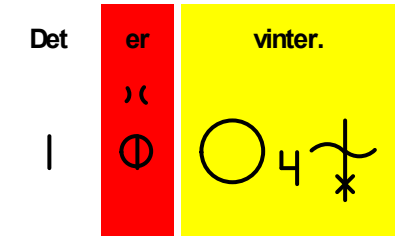
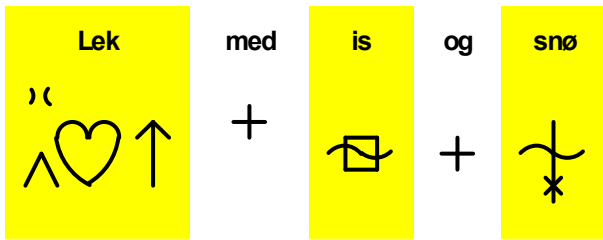
Lag din egen regnbue en dag sola skinner.

Fyll vann i ei dusj -flaske.

Stå med ryggen mot sola.

Sprut litt vann fra dusj -flaska ut i lufta.

Ser du noen farger?



Hvordan	kan	du	lage	islykt,	tror	du?
? ^	)) · v	⊥ 2	^ △	□ ⊕	x ⌒	⊥ 2

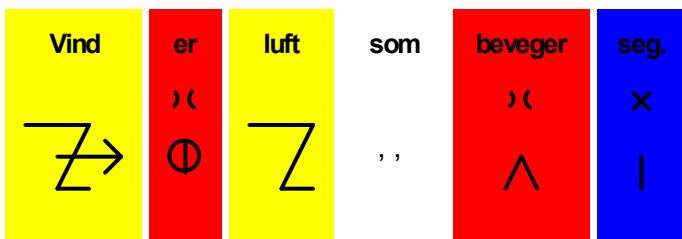
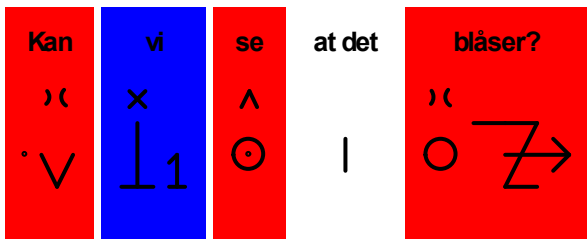
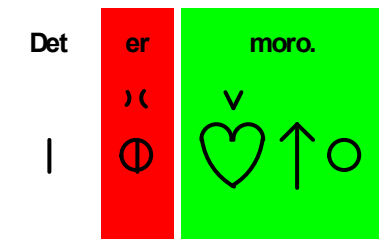
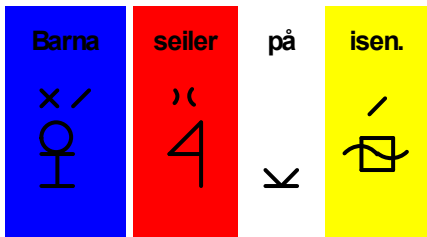
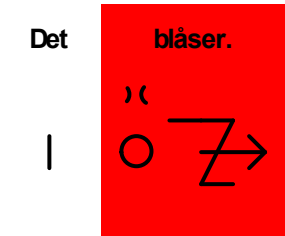
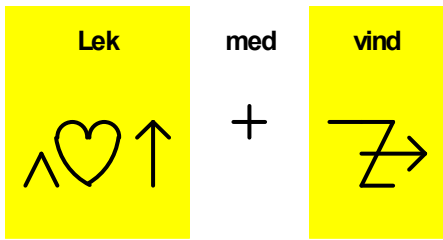
Kan	du	lage	flaskebobbane?
)) · v	⊥ 2	^ △	○ □ ⌒ I ↓

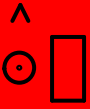

Les	ordene.
^ ⊙ □	x/ ÷ ⌒



Skriv	ordene.
x /	x/ ÷ ⌒

kald
v ⊕


islykt
□ ⊕



Les	ordene.
	

Skriv	ordene.
	

seiler

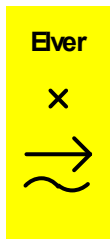

vind


Mal	en	regn-	værs-	himmel.

Hvilke	farger	vil	du	bruke?

Tegn	deg	selv	når	du	er	ute	i	regn-	været.

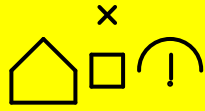
Hva slags	klær	har	du	på	deg?



På

museum

↘



Klassen

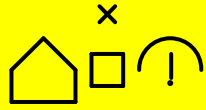
er

på

museum.



↘



Klassen

ser

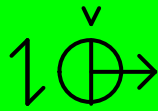
på

gamle

båter.



↘



Klassen

ser

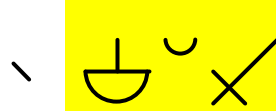
på

et

vikingskip.



↘



Klassen

ser

på

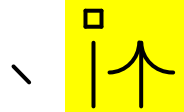
en

stokke-

båt.



↘



Stokke-

båten

er

laget

av

en

tømmerstokk.



<

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Stokke- båten var den første båten i Norge.

For 1000 år siden hadde vi ikke veier.

For 1000 år siden brukte vi elvene som veier.

Vi bruker elvene som veier i dag også.

På bildet ser du elve- båter.

Vi kan reise langt på elvene.

Alle elver renner ut i havet.

Skriv ordene.

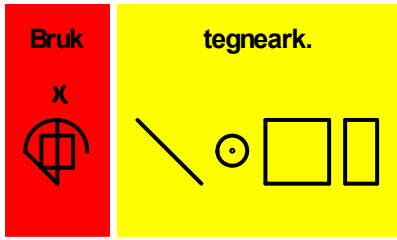
elver

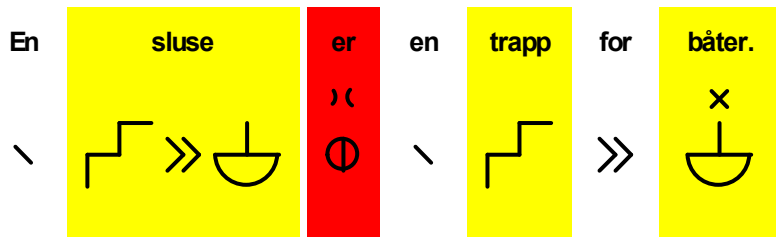
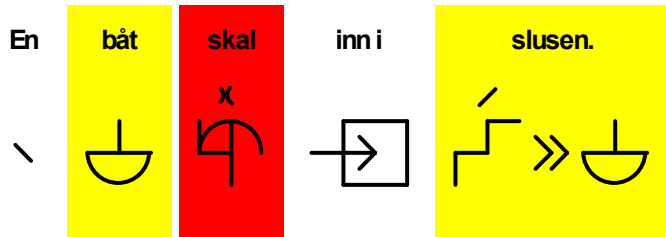
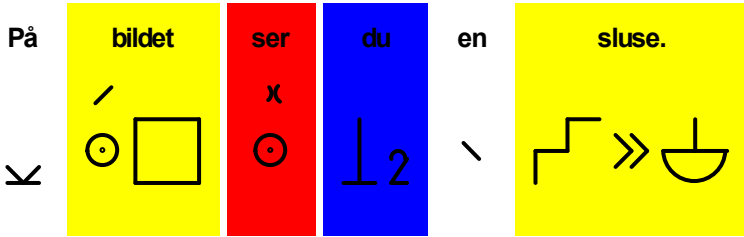
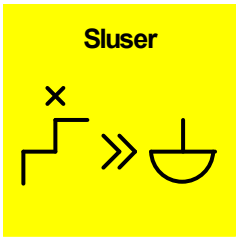
elve-båt



stokke- båt

tømmerstokk


Tegn en stokke- båt på elva.






Skriv x 	ordene. x/ 
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sluse

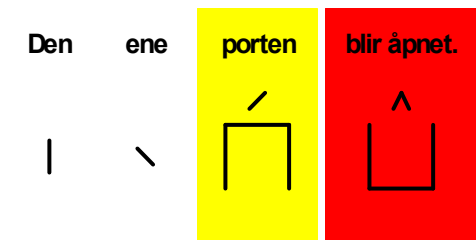
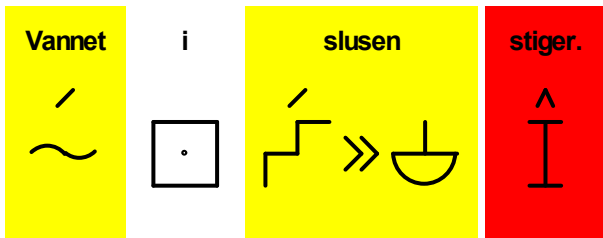
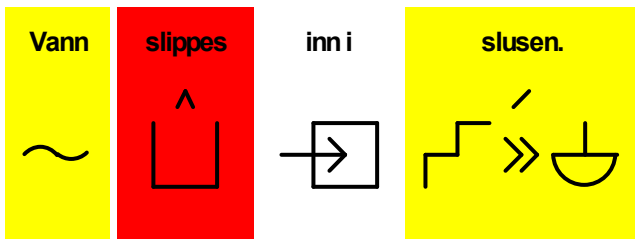
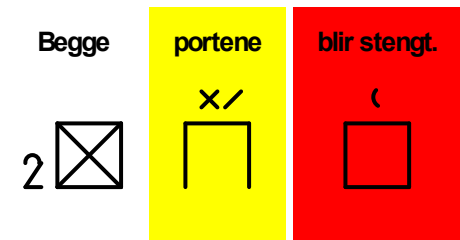
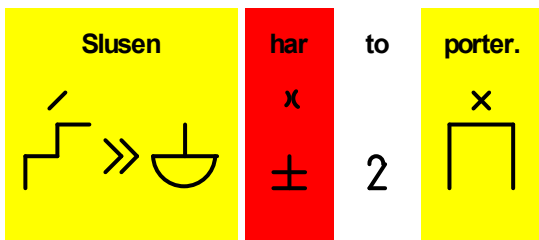
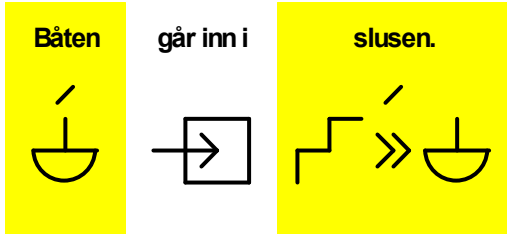
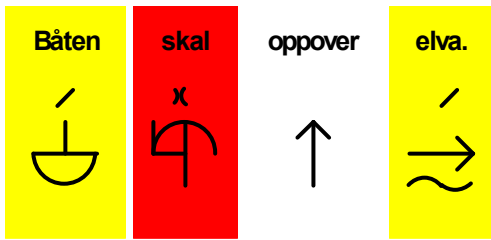


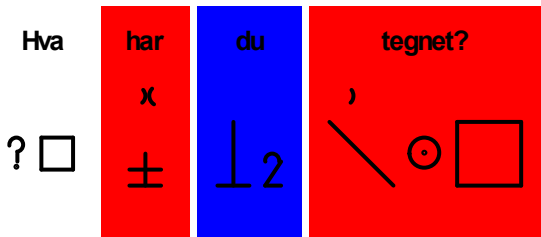
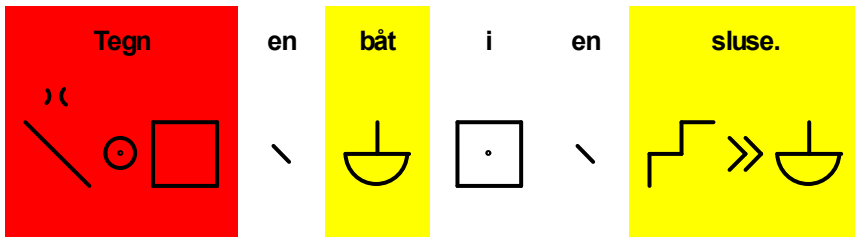
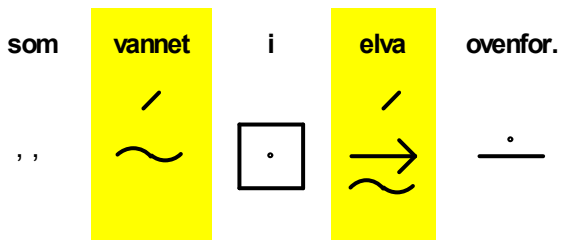
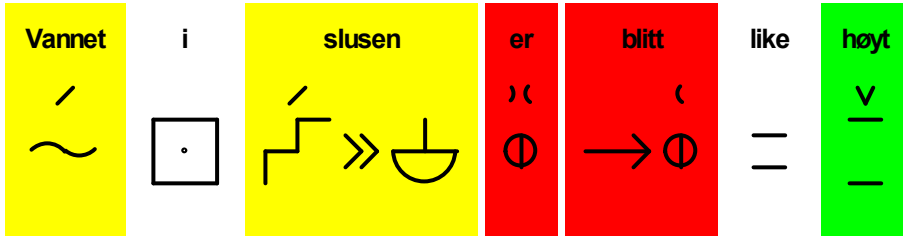
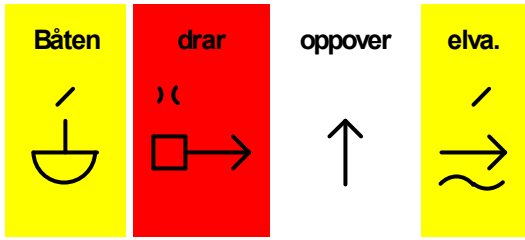
trapp



båter







Vi	har	mye	tømmer	i	Norge.
x ⊥ 1	x ±	v x	/ □ ↑	□ •	□ ~ ▽

Vi	bruker	tømmer	til	å bygge	hus.
x ⊥ 1	x ⊕	/ □ ↑	>•	^ △	□ △

Vi	bruker	tømmer	til	å lage	papir.
x ⊥ 1	x ⊕	/ □ ↑	>•	^ △	□

I dag	frakter	vi	tømmeret	med	lastebiler.
Ω ) (	x ⊕ → |	x ⊥ 1	x/ □ ↑	+	x □ ⊗ ⊗ ⊗

Vi	fraktet	tømmer	på	elvene	før i tiden.
x ⊥ 1	x ⊕ → |	/ □ ↑	≲	x/ ~ →)

Tømmer-	fløtere	passet på	tømmeret.
/ □ ↑	x ⊥	^	x/ □ ↑

Tømmeret	fløt	nedover	elva.
x/ □ ↑	^ ~	↓	/ ~ →

Tømmer-	fløteren	hadde	en	farlig	jobb.
☐↑	⊥	^ ±	\	∇ ⊥	∧

Hvorfor	var	jobben	farlig,	tror	du?
?▷	⊃ ⊕	∧	∇ ⊥	x ⌒	⊥ ₂

Over

elva



Vi	bygger	broer	over	elvene.
x	x	x		x /

Vi	har	mange	typer	broer.
x	x	v	x	x

Se	på	bildene.

Hvorfor	bygger	vi	broer	over	elvene,	tror	du?
?	x	x	x		x /	x	

De	første	broene	var	trestokker.
x | 3	v 1.	/x ⌒	) ⊖	x □ ↑ | ↑

Broene	het	klopper.
/x ⌒	) ⊖	□x | ↑



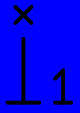
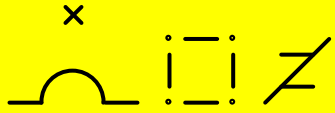
Hengebroer	kan	bli laget	av	tau	og	planker.
x ⌒	)( °v	( △	<	□ | #	+	□x | ↑

Hengebroer	kan	bli laget	av	stål	og	betong.
x ⌒	)( °v	(△	<	□x | /	+	□ △ △


Vindebroer	kan	bli dratt	opp.
x ↑ △ ⌒	)( °v	(□→	↑

Klaffebroer	kan	åpnes	på	midten.
x ⌒ ÷	)( °v	^ □	≲	□ v


Store	båter	kan	seile	under	klaffebroer.
v | |	x ⌒	)( °v	^ ⌒	- °	x ⌒ ÷

Idag	bygger	vi	bjelkebroer.
			


Skriv.




bro



klopp




hengebro



klaffebro



vindebro



bjelkebro



Velg



en



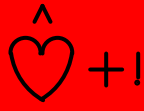
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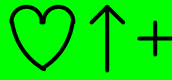
du



liker



godt.



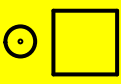
Lag



et



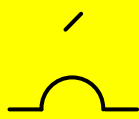
bilde




av









broen.



Hva ^ ? ○	slags ⊖	bro 	har x ±	du ⊥ 2	laget?)
-----------------	------------	--	---------------	-----------	-------------

Jeg ⊥ 1	har x ±	laget)	en \
------------	---------------	------------	---------

Bygg)(	en \	bro. 
--	---------	---

Hva ^ ? ○	kan ^ · ∇	du ⊥ 2	bruke ^ 	å bygge ^ 	med +	når · ∅	du ⊥ 2	bygger x 	broer? x 
-----------------	-----------------	-----------	---	---	----------	------------	-----------	--	--

Elver i Norge

x

→

□

□

~

△

I Norge har vi mange elver.

□

□

~

△

x

±

x

⊥ 1

v

x

→

Elver er tegnet med blå farge på kartet.

x

→

x

⊖

⊖

⊖

□

+

⊖

—

⊖

↘

□

—

Glomma er den lengste elva i Norge.

→

→

⊖

⊖

⊖

⊖

□

□

~

△

Glomma er 60 mil lang.

→

→

⊖

6 0

□

⊖

⊖

⊖

Finn Glomma på kartet.

x

⊖

⊖

□

→

↘

□

—

Glomma begynner ved Aursunden.

→

→

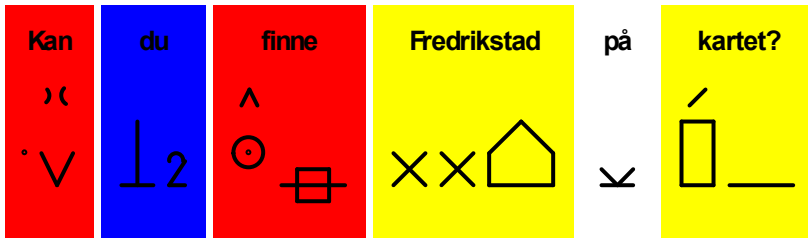
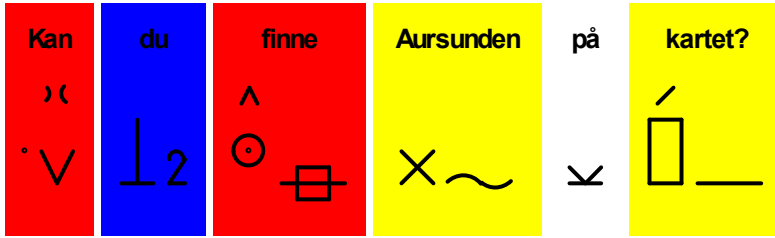
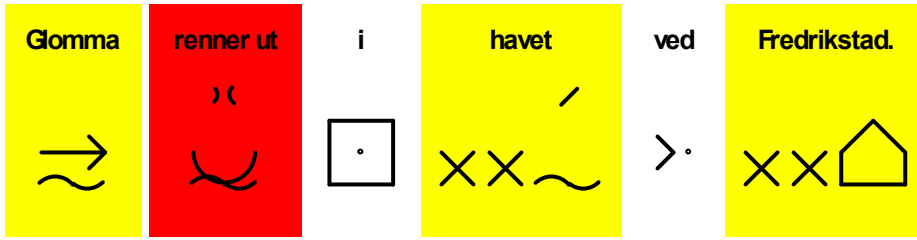
→

⊖

⊖

x

~



Hva heter den lengste elva i Norge?

? □ | | | | |

Den lengste elva i Norge heter

Tegn Glomma på kartet.

Fargelegg kartet.

ORD TIL SIDE 8

(side 5 i originalutgaven)

solskinn



overskyet



regn-

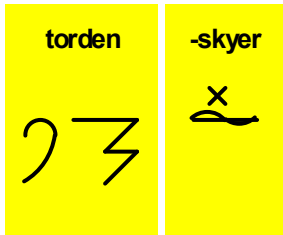
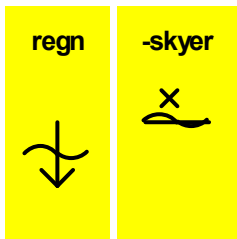


-vær



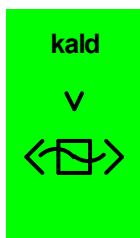
ORD TIL SIDE 11

(side 6 i originalutgaven)



ORD TIL SIDE 17

(side 10 i originalutgaven)



ORD TIL SIDE 19

(side 11 i originalutgaven)



ORD TIL SIDE 24

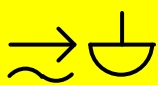
(side 15 i originalutgaven)

elver

x



elve-båt



stokke-

båt



tømmerstokk



ORD TIL SIDE 27

(side 16 i originalutgaven)

sluse



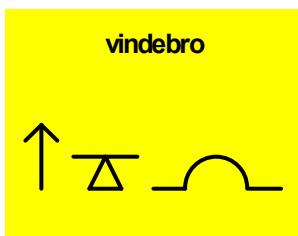
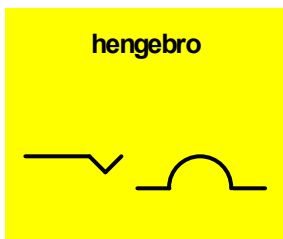
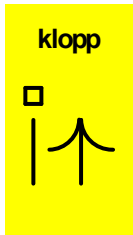
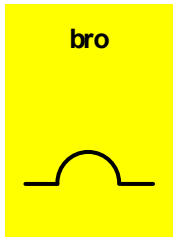
trapp



båter



ORD TIL SIDENE 35-36
(side 22 i originalutgaven)



ORD TIL SIDE 40
(side 24 i originalutgaven)

Gomma

