



Enriching the Curriculum with Online Resources

Miss Stock and Miss Cranstone

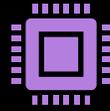
Outcomes

- Sharing tried and tested resources
- Knowing how to be creative/fun in making lessons more cross-curricular
- Exploring the different ways in which resources can be used to enrich the curriculum
 - Knowing why some resources are proven to aid 'Sticky Learning' and retrieval.
 - seek to pursue academic goals through non-traditional means

Why use computing across the curriculum?



To satisfy general child interest in learning more about computing



To give students knowledge of and experience with the effective use of computing technology



To provide a broader understanding of information technology required for effective participation in society



Make learning fun!

"The key to retrieval practice is to engage students in recalling information from memory"
(Agarwal et al 2020)

Pooja K. Agarwal, Ph.D.

Henry L. Roediger, III, Ph.D.

Mark A. McDaniel, Ph.D.

Kathleen B. McDermott, Ph.D.

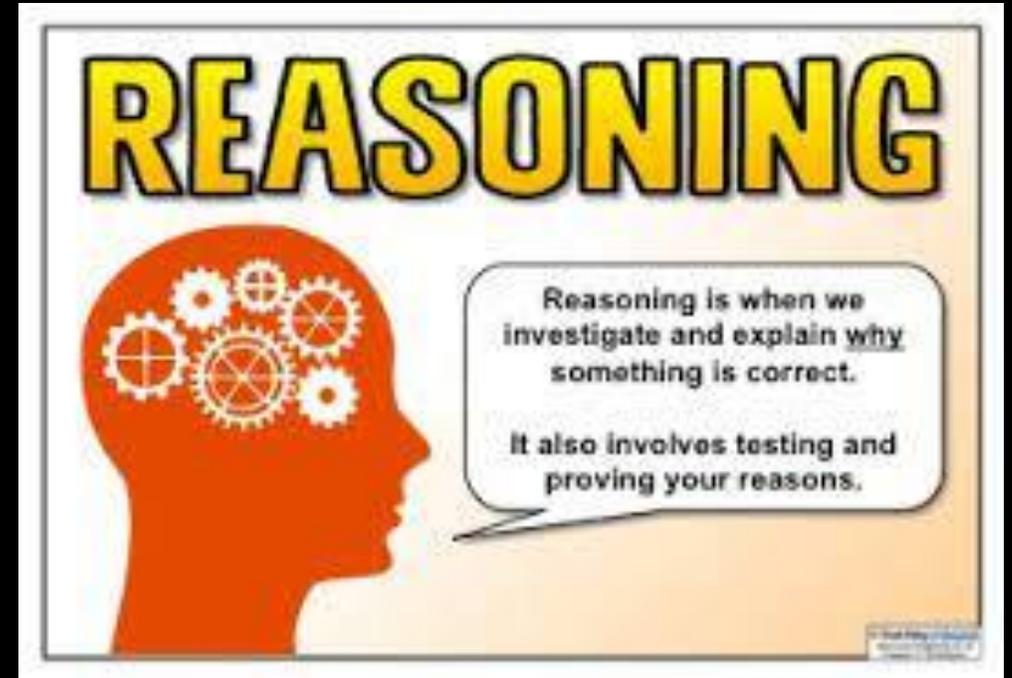
**HOW TO USE
RETRIEVAL PRACTICE
TO IMPROVE
LEARNING**

<http://pdf.retrievalpractice.org/RetrievalPracticeGuide.pdf>

Developing opportunities and ensuring progression in the development of reasoning skills.

"The ability to reason mathematically as the most important factor in a pupil's success in mathematics"

Nunes (2009)



https://www.researchgate.net/publication/270703374_Developing_and_assessing_mathematical_reasoning

"When pupils used the CPA approach as part of their mathematics education, they were able to build on each stage towards a **greater mathematical understanding** of the concepts being learned, which in turn led to information and knowledge being **internalised to a greater degree.**"

Bruner 1969

Achieving **MASTERY.**



Phonics

PHONICS BLOOM

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Plug-ins Required.

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- Phase 4 Phonics Games Play Now!
- Phase 5 Phonics Games Play Now!
- Phase 6 Phonics Games Play Now!

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Pict games

Forest Phonics

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Phase 2 games

Phase 3 games

Phase 4 games

Phase 5 games

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Maths



Switch Clock Type

1 minute, 5 minutes, 10 minutes, 15 minutes, 30 minutes, 1 hour

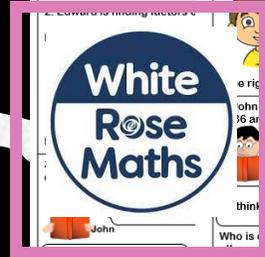
Random, Now, 4 mins to, Reset

Compare Numbers on a Number Line

Which is the bigger number?

40, 33

Show divisions



Problem Solving and Reasoning - Factors

1. Lisa is finding factors of 18. Below is her working out.

$$\begin{array}{r} 3 \times 6 \\ 1 \times 18 \\ 2 \times 9 \end{array}$$

2. Edward is finding factors of 20.

3. John and Ben are both finding factors of 25 and discussing how many it has.

4. Complete the Venn diagram below.

Factors of 8, Factors of 14, Factors of 12, Factors of 2

5. Read the statement below and decide if it's always true, sometimes true or never true.

All numbers have an even amount of factors.

6. Lily is finding factors of 16.

7. Helen is finding factor pairs for the numbers 28 and 21.

8. Complete the Venn diagram below.

Factors of 8, Factors of 14, Factors of 12, Factors of 2

Menu

Select mode

Pick a color

Pick a puzzle

Missing number, 1 more & 1 less, 10 less, Cross, Patterns

Flip, All, Reset

1	2	3	4	5	6
11	12	13	14	15	16
21	22	23	24	25	26
31	32	33	34	35	36
41	42	43	44	45	46
51	5				
61	6				
71	7				
81	8				
91	9				

Mental Maths Train

A four operations game

Select a truck to play

Different Ways to Pay

Make 23p in 5 different ways.



What is the time?

Play game

07:45, 08:45, 09:06



Make a Whole

7a. Complete the calculation below. How many different solutions can you find?

$$0.3 \square + 0.4 \square$$

7b. Complete the calculation below. How many different solutions can you find?

$$0.5 \square + \square$$

8a. Complete the calculation below. How many different solutions can you find?

$$0.3 + 0. \square + 0. \square$$

11a. Find the missing number in each bar model.

11b. Find the missing number in each bar model.

12a. How many hundreds are there in 1000?

12b. How many hundreds are there in 1000?

13a. You have 5 ten hundredths. Draw a bar model to show how many hundredths you have.

13b. You have 5 ten hundredths. Draw a bar model to show how many hundredths you have.

14a. Complete the bar model.

14b. Complete the bar model.

15a. True or false? 100 is 10 times as many as 10.

15b. True or false? 100 is 10 times as many as 10.

16a. How many more tens do you need to make one whole?

16b. How many more tens do you need to make one whole?

17a. True or false? 100 is 10 times as many as 10.

17b. True or false? 100 is 10 times as many as 10.

MATHSFRAME.CO.UK

Partitioning (3)

Can you find 5 ways to make 100?

$$100 = 100 + 0 + 0 + 0 + 0$$
$$100 = 100 + 30 + 30 + 5$$
$$100 = 80 + 80 + 5$$

QUADRILATERAL, NOT QUADRILATERAL

Play game

Play game

Dienes - Identify and Represent Numbers

How many counters?

check



Times table checkers/SATs



MAIN MENU **Multiplication Tables Check** Time left: 2

3 x 8 = 24

Play game

1	2	3
4	5	6
7	8	9
0	ENTER	

Time allowed: 6 seconds
Tables selected: All

Question 1 of 25

MATHSFRAME.CO.UK

Timestables.co.uk
MTC

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Multiplication tables check

00:00

3 x 7 =

Place Value

PLACE VALUE KS2 SATS
PRACTICE QUESTION BY TOPIC

1. Andy has a number using three digit cards.

The hundreds digit is greater than 4.
Andy's number is 444.
What number could Andy have?

2. Complete the table with the missing numbers.

Number	Card value
444	400
444	40
444	4

[Questions]

Place Value

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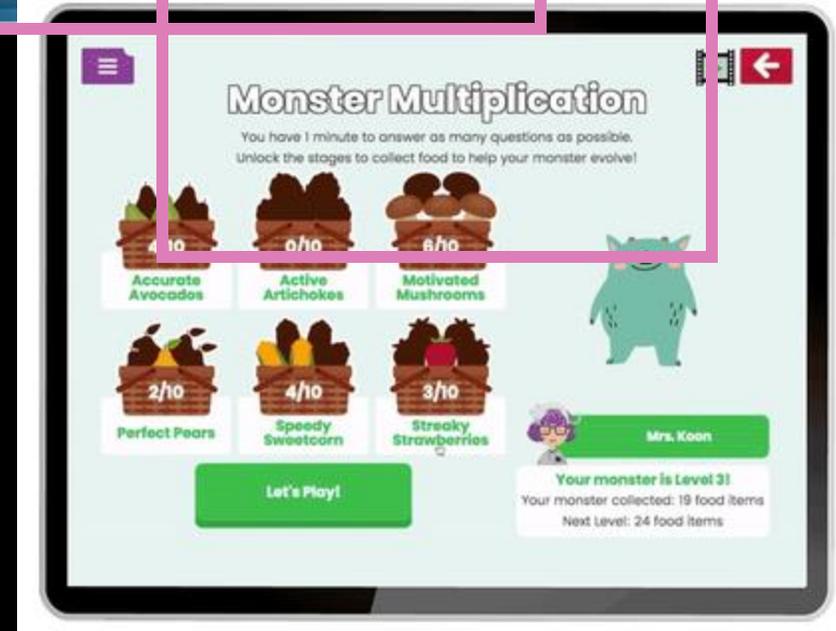
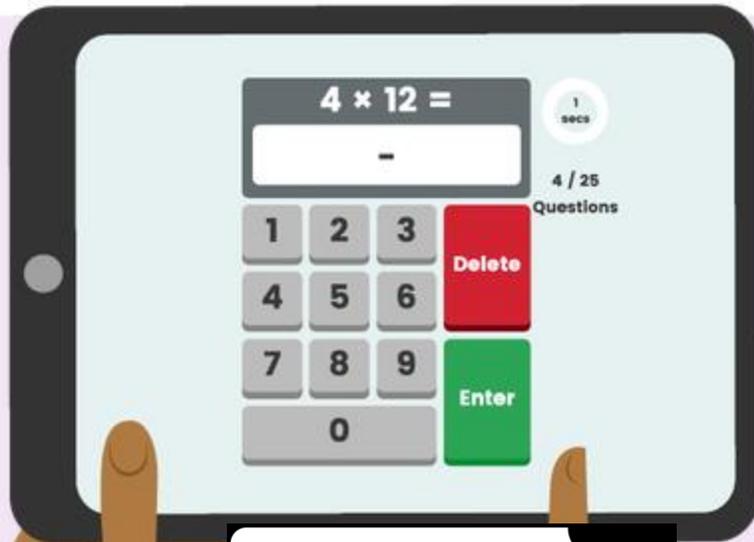
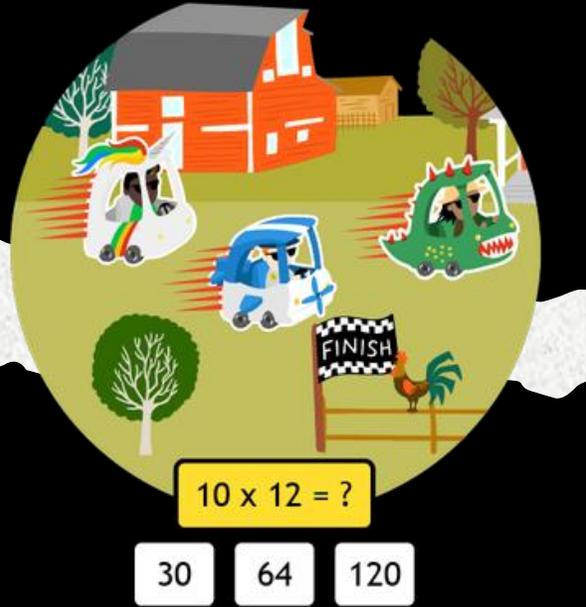
Number	Card value
444	400
444	40
444	4

[Solutions]

David Morse

Maths4Everyone
Enjoy • Improve • Succeed

Purple Mash



purple mash

2Dos Work Data

← Teachers/Phonics

serial mash

PHonics Phase 2
Phonics - Phase 2

PHonics Phase 3
Phonics - Phase 3

PHonics Phase 4
Phonics - Phase 4

PHonics Phase 5
Phonics - Phase 5

Word Wall



Click on the correct word to complete the sentence.
We were _____ on our topics.

A worked	B works
C working	D work

adjective

A describing word	B when the writer makes you think or feel a certain way
C something which can be proven	D what somebody thinks but it can't be proven

can't will used to provide wanted didn't use liked
doesn't didn't use to used to be had used to work used to make

In the 1960s, Detroit _____ a busy city.
The auto industry _____ most of the cars in the United States. Many people _____ downtown. At that time, the downtown area _____ have abandoned and empty buildings. Now the rents are so high that people are leaving the city. Business also _____ many job opportunities. People _____ to dress as casually as some people do now. However, there wasn't what we call fast-fashion at that time. Now we also want to express our identities through our clothes.

rog	hat
zud	suf
sun	sit
nem	log
kad	pen
wop	vev
ten	yol
tag	fin
wup	cat
heg	bug

Real Words

Nonsense Words

Jackanapes	Chopserver	Rhymicanical	Hirsute
Spinnorker	Barborygmus	Gigglehyume	Flimbadignant
Nunnyhammer	Ugglesome		

Real Fake

19	18	13	20
12	10	14	15
17	11	16	

Eighteen	Fourteen
Fifteen	Eleven
Twenty	Seventee
Nineteen	Twelve
Sixteen	Ten

what is the spelling

A occur	B ocor	C occour
occur	ocor	occour
D ocur	E occir	F occcor
ocur	occir	occcor

Burslem is in Stoke-on-Trent.	KFC is all right once in a while.	The film 'Birdman' won the 2015 best film Oscar.	The premier league seems to be a fascinating competition.
KFC is a fast food restaurant.	It's always raining in Burslem.	Diamonds are very expensive to buy.	I think the Sun is a rubbish newspaper.
The Sun is a tabloid newspaper.	Diamonds are made from carbon.	The FA premier league started in 1992.	I think 'Birdman' was a successful and entertaining film.

Fact

Opinion

Why was you talking to him?	Was you crying?	We was talking about school.	I did my homework.
Why were you crying?	We were walking down the road.	I done that.	Did you see that?
I done my homework.	He didn't come to the party.		

Correct

Incorrect



Gameshow quiz

A multiple choice quiz with



When bronchial tubes are irritated and swell, producing too much mucus

A Bronchitis	B Alveoli	x2 Score
C Chronic	D Aerobic respiration	50:50
		Extra Time



Youtube



<https://www.youtube.com/watch?v=K6DSMZ8b3LE>

Seven Continents Song - YouTube



A song to help kids learn to smallest. Subscribe!

YouTube · Hopscotch

<https://www.youtube.com/watch?v=9C4EN7mFHck>

2 Times Table Song (Cover of Can't Stop The Feeling! By ...



2 Times Table Song (Cover of Can't Stop The Feeling! Timberlake) ; Subscribe and watch new videos. · YouTu

YouTube · Laugh Along and Learn · 17 Jan 2018

<https://www.youtube.com/watch?v=byszemY8PI8>

"Preposition" by The Bazillions - YouTube



Up, down, all around -- learn you along with The Bazillions' hit so

YouTube · TheBazillions · 23 Au

<https://www.youtube.com/watch?v=f3cEpwJ5SM7g>

Multiply by 6 | Learn Multiplication | Jack Hartmann - YouTube



Multiply by 6 with a hip- hop beat. Sing along to the 6 times tables by singing along with the multiplication fact the first time...

YouTube · Jack Hartmann Kids Music Channel · 19 Jan 2017

<https://www.youtube.com/watch?v=B3hR3BHpeho>

www.youtube.com > watch

Sing with Grammarsaurus - Adverbs and Adverbials - YouTube



Get your grammar groove on with Grammarsaurus teaching videos. Grammarsaurus brings a new edge to learning...

YouTube · Grammarsaurus · 3 May 2017

5 key moments in this video

English

Story starter

The King had known that the gift he presented to his children on their 5th birthday was dangerous. He was prepared to take the risk of letting them own a pet dragon, however. One day, the twins would rule the kingdom together, and they would need all the help they could get. No-one could deny that a dragon was a powerful ally!

Before that day, though, the children had much work to do. They had to train their dragon!

Continue the story.

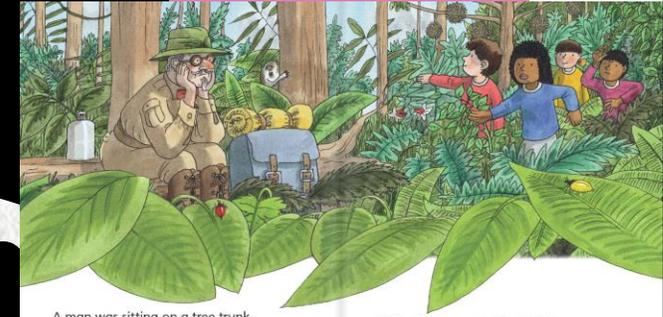


Jurassic

Photo courtesy of Alexar Koshelkoz www.ok 19 May 2020

1. Pretend to be a news reporter who has just come across this dinosaur. How would you be feeling and what would you tell other people? Challenge yourself by making your own newspaper report with pictures and headings.

Oxford
OWL



A man was sitting on a tree trunk. He did not look happy.

"What is the matter?" said Wilma.

Question time

- What would be the benefits of living in a house like this? What would be the problems?
- Who do you think lives there?
- Can you describe where the house is?
- How do you think the people in this house travel around?
- Who/where are their next door neighbours?
- What's your favourite room in your house/flat?
- If you had to get rid of one room in your house/flat, what would it be?
- What would your dream home look like?



Pobble

THE LITERACY SHED

HOME

LITERACY SHED PLUS

LITERACY SHED STORE

WOR



THE
AUTHORS
SHED



THE
CHRISTMAS
SHED



THE
FANTASY
SHED

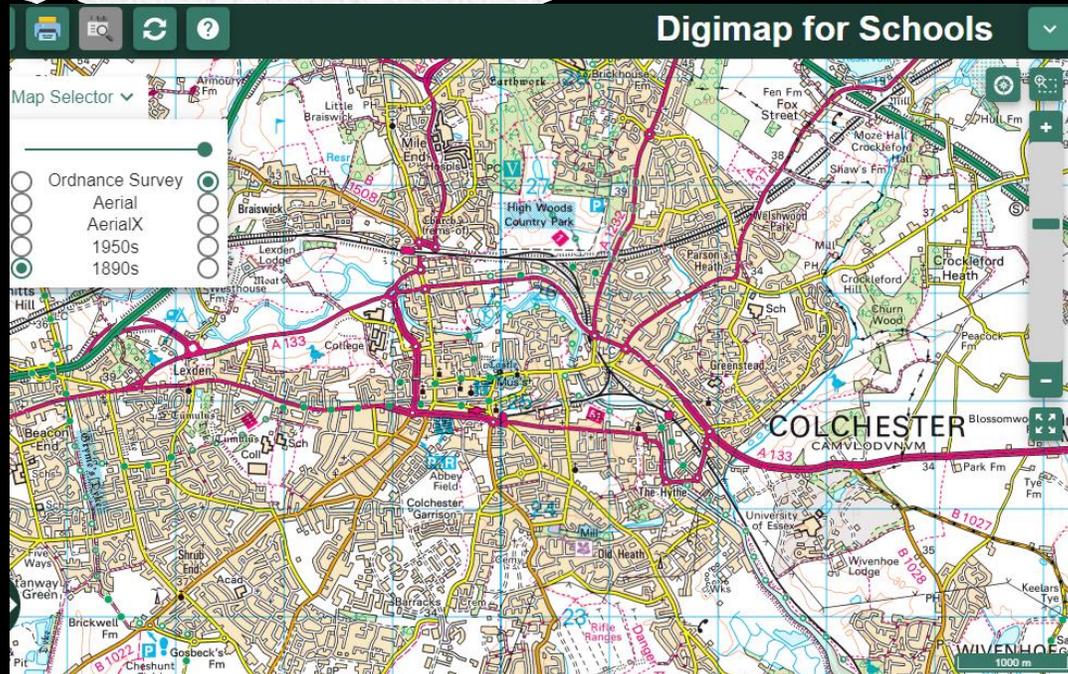
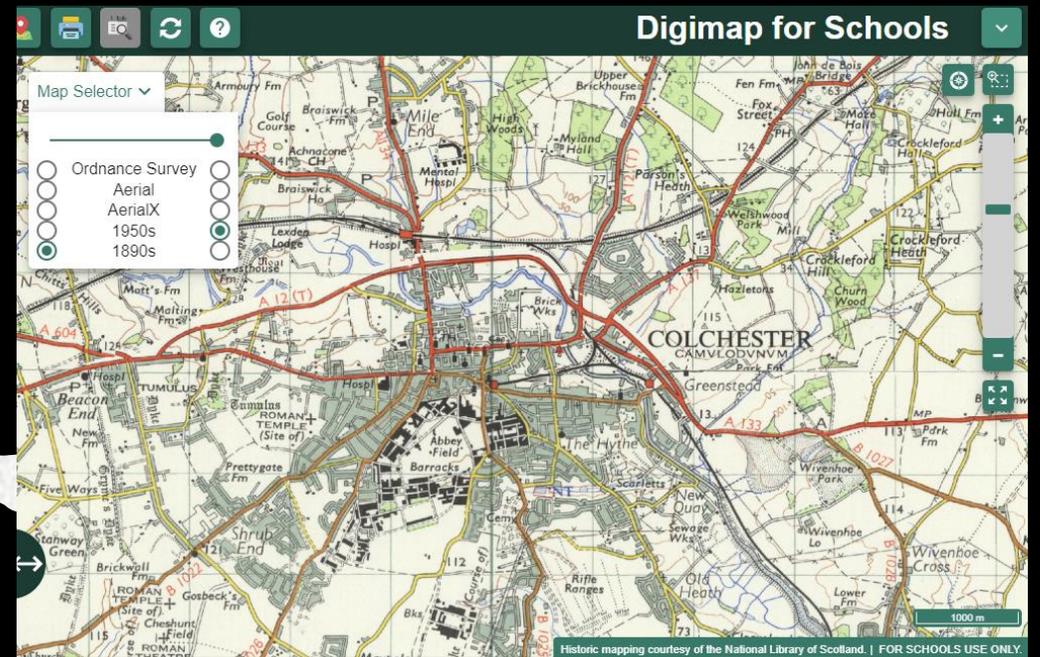


THE
FILM TRAILER
SHED

Geog/History



Digimap®



Geog/History

DK findout!

Iron-Age village life

The people of Iron-Age Europe, called Celts, lived in tribes ruled by chiefs or kings and queens. Most people were farmers who used a variety of iron tools. They cleared the land for farming using iron axes, and turned the soil with iron-tipped plows. There



Stealing cattle

Houses

Farming

Hill fort

War trun

Priests

Boating



Science



Year 5 - 6

236 activities found [Clear filters](#)



▶ WHAT'S GOING ON?

To flee or not to flee

Spark a conversation with this video showing different animals on the move.

Year 1 - 2, Year 3 - 4, Year 5 - 6

- Animals, including humans
- Living things and their

DK findout!

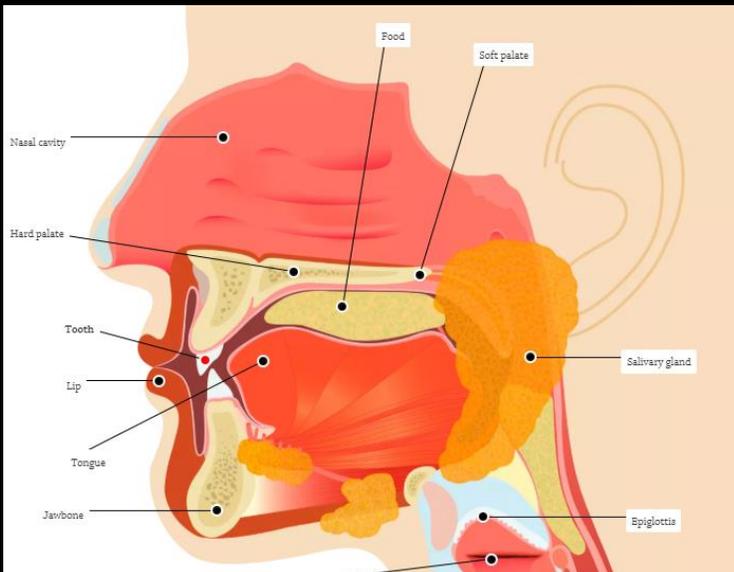
Animals and Nature	Computer coding	Dinosaurs and Prehistoric Life	Earth	History
Human Body	Language Arts	Math	Music, Art, and Literature	Science
Space	Sports	Transportation	More Find Out	

Creature comforts

Zoom in



Zoom out



Mouth

Digestion begins in the mouth, where teeth cut and crush food into small pieces.

[In the mouth >](#)

Esophagus

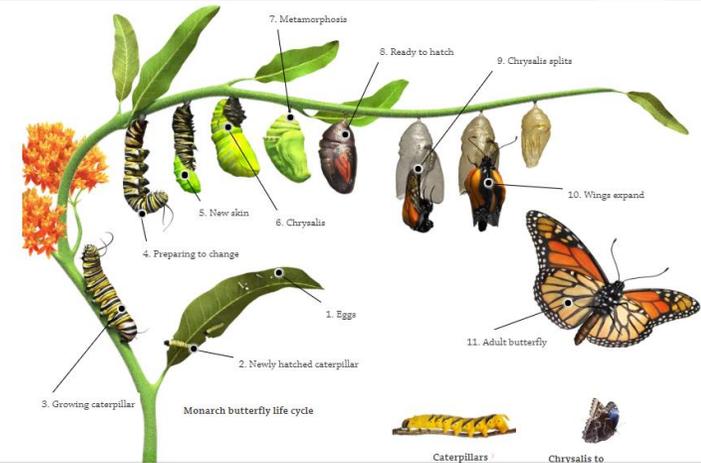
Butterfly life cycle

Butterflies start life as crawling, wingless larvae called caterpillars. They spend most of their time eating to store energy inside their bodies. When the caterpillar is ready, it hides away inside a tough shell called a pupa, or chrysalis. Inside the chrysalis, its body transforms into the shape of an adult butterfly. This type of change is called complete metamorphosis, and it also happens in beetles, bees, wasps, and ants.

Some moths have no mouths and cannot eat. They do all their eating while they are caterpillars.

Take the insects quiz

From chrysalis to butterfly



Other resources

imoves  Active Blasts

Enter you

Fun active brain breaks for every day of the week designed to do in the classroom around tables and chairs. Refocus and the best version of you students emerge! Click on a thumbnail and play the movie, can't say fairer than that!

139 lessons are currently hidden. Change your filters to see more results.

Clear Filters

Popping Challenge Set 1

Featured



GoNoodle

Topics

Channels

Activities & Routines

Skills & Knowledge

Breathe

Featured

Videos

Activities

Blog Posts

Featured Videos



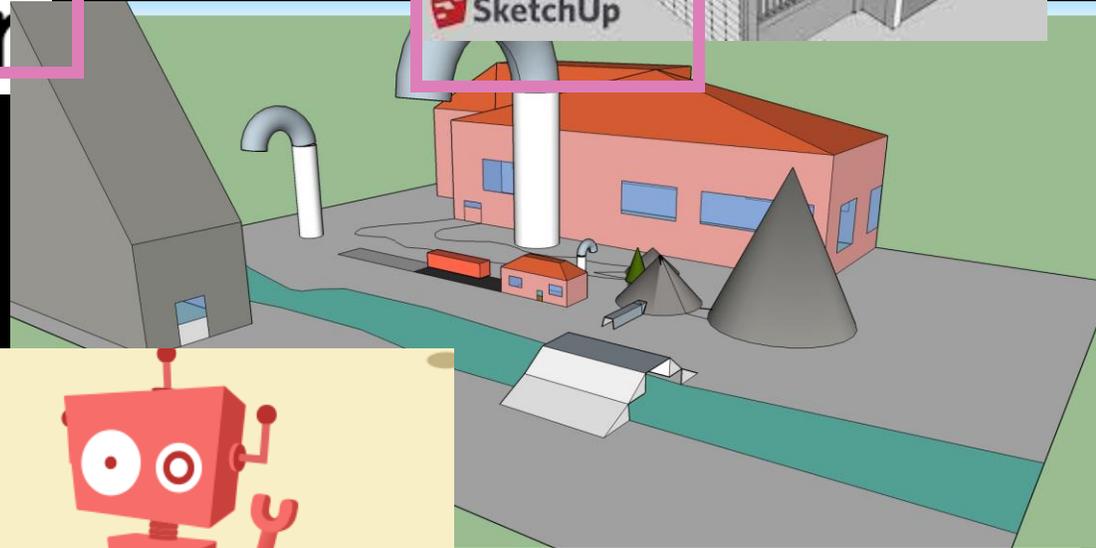
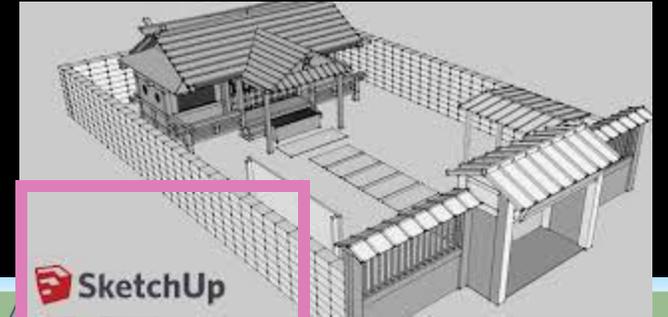
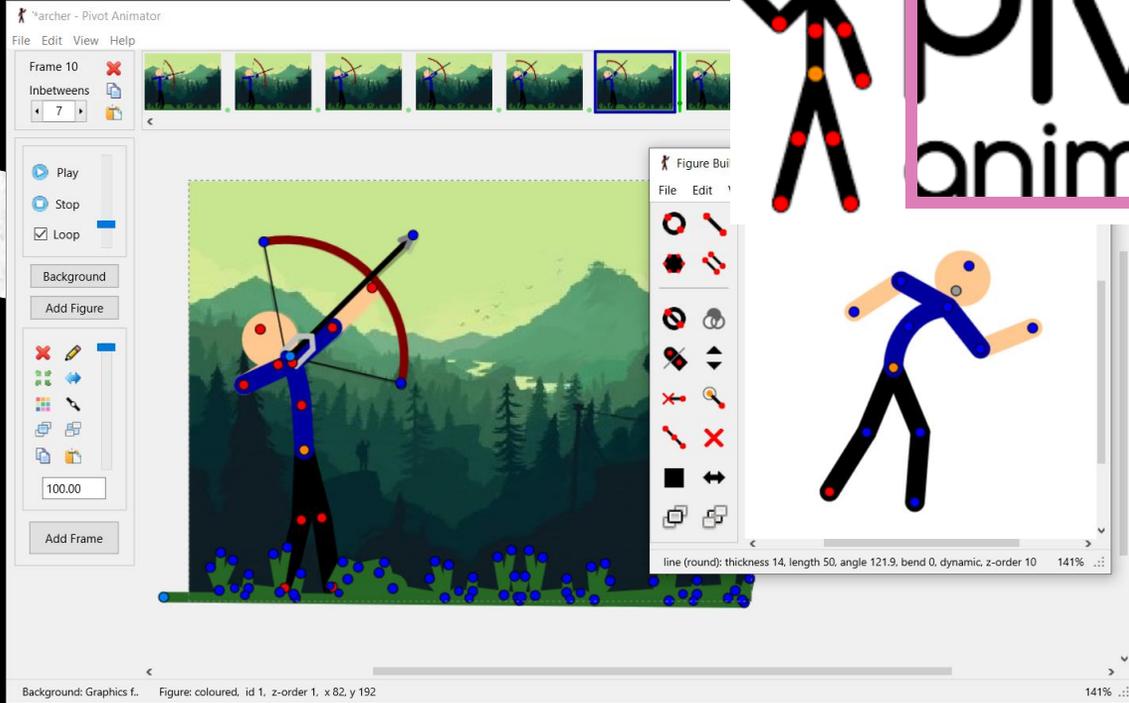
"Mindfulness in primary school children as a route to enhanced life satisfaction, positive outlook and effective emotion regulation"
Amundsen et al (2020)

 paint.net

Photography in art



Other resources





**Any resources that you have
used that are successful?**

Retrieval Practice- The benefits

You may already be doing this e.g. ask students questions during class, give quizzes and exams, and/or provide homework as a way to “practice” what was learned.

DOES RETRIEVAL IMPROVE MORE THAN JUST MEMORIZATION?

By using retrieval practice as a learning strategy (not an assessment tool!), we exercise and strengthen our memory.

Research demonstrates that this improvement in memory and long-term learning is flexible, which:

- • Improves students’ complex thinking and application skills
- • Improves students’ organization of knowledge
- • Improves students’ transfer of knowledge to new concepts

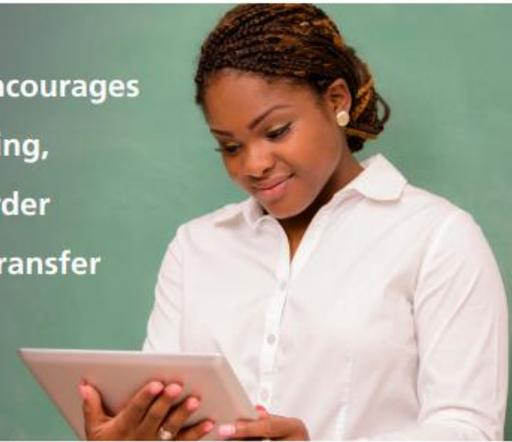
In other words, retrieval practice doesn’t just lead to memorization– it increases understanding.

As an additional benefit, retrieval practice helps us to identify gaps in learning.

In other words, not only does retrieval improve learning and help us figure out what we do know – more importantly, it helps us figure out what we don’t know. This crucial benefit of retrieval practice is called metacognition, or awareness of what students know and don’t know. Thus, feedback is very important.

<http://pdf.retrievalpractice.org/RetrievalPracticeGuide.pdf>

Retrieval practice encourages flexible understanding, improving higher order thinking skills and transfer of knowledge.



Concrete Pictorial Abstract

Jerome Bruner

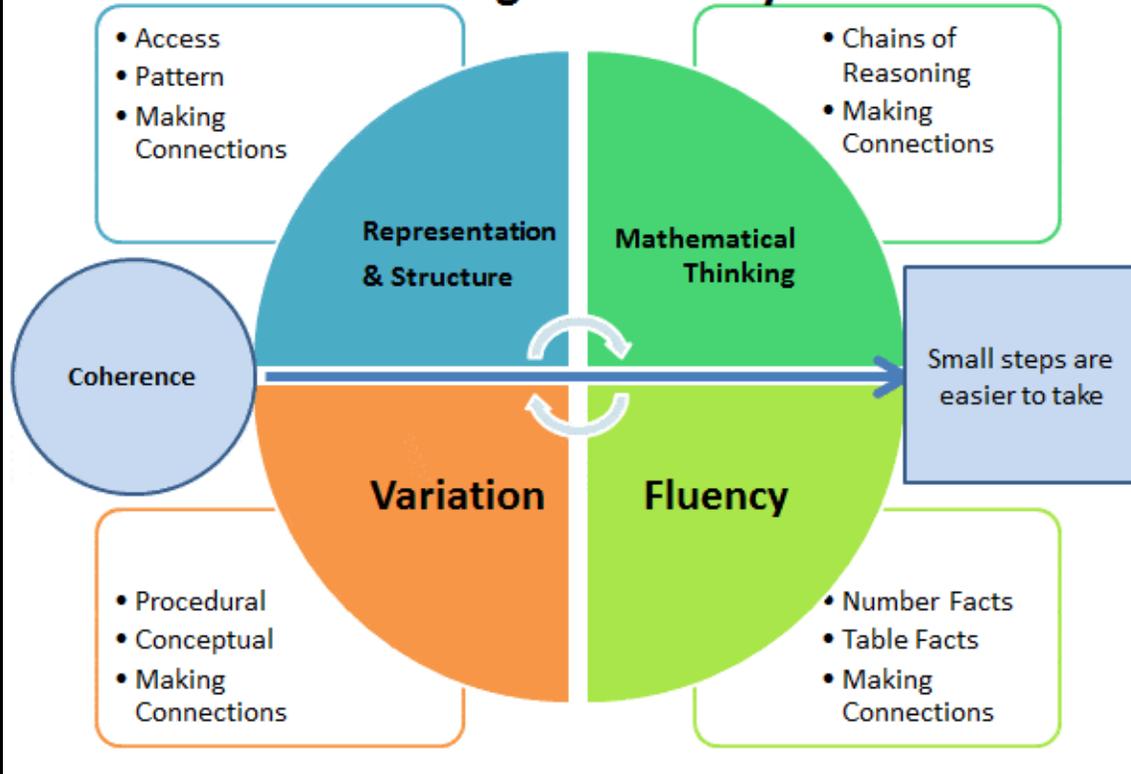
- The abstract nature of learning (especially in maths) is a 'mystery' to many children. It therefore needs to be scaffolded by the use of effective **representations and maths manipulatives**.

"When pupils used the CPA approach as part of their mathematics education, they were able to build on each stage towards a **greater mathematical understanding** of the concepts being learned, which in turn led to information and knowledge being **internalised to a greater degree.**"

Bruner 1969

- Thus, achieving **MASTERY**.

Teaching for Mastery



Reasoning

- Reasoning about what is already known in order to work out what is unknown will improve fluency; for example if I know what 12×12 is, I can apply reasoning to work out 12×13 .
- The ability to reason also supports the application of mathematics and an ability to solve problems set in unfamiliar contexts.

It is therefore crucial that opportunities to develop mathematical reasoning skills are integrated fully into the curriculum. Such skills support deep and sustainable learning and enable pupils to make connections in mathematics.