

Week beginning 18.5.20

Year 6

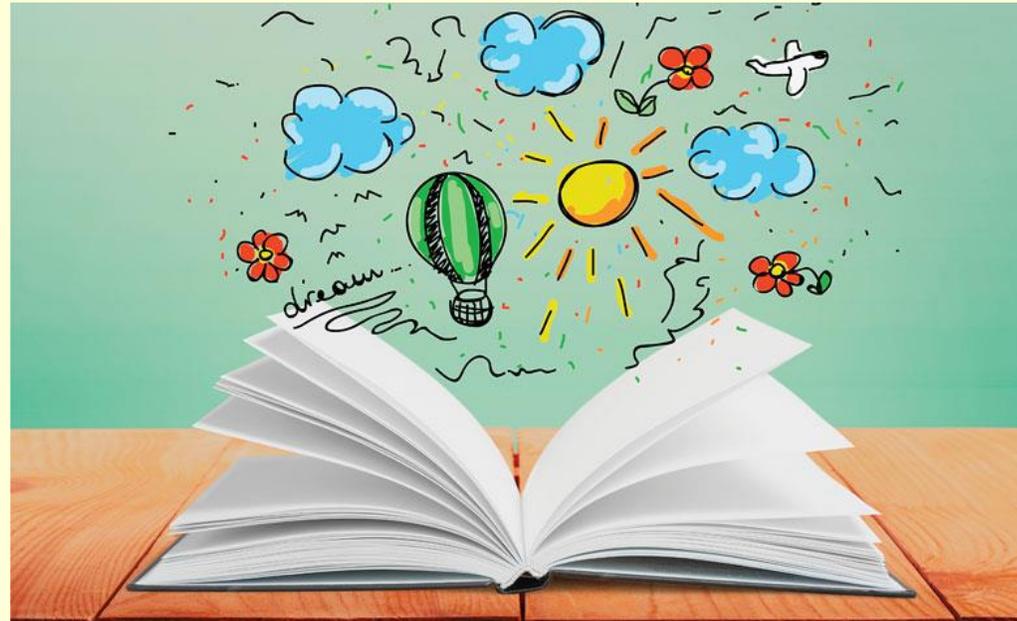
We hope you and your families are keeping well. Here are the suggested activities for this week for you to follow and complete.

Please also remember to take time to relax and exercise.

Take care and keep smiling,
Mrs Jones and Mr Morgan

Monday 18th May 2020

Please remember it is really important for you to read everyday for at least 10 minutes. It is a good idea to read lots of different texts, not just fiction.



Maths

18.5.20

Fluent in 5

Complete these 5 questions in 5 minutes

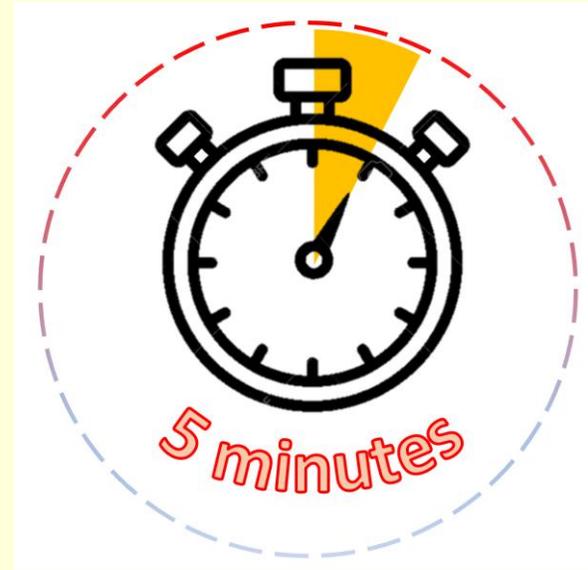
1. $2,035 \times 92 =$

2. $\frac{3}{5} \div 12 =$

3. 65% of $480 =$

4. $8^3 =$

5. $7 - 0.91 =$



Answers:

Fluent in 5

Complete these 5 questions in 5 minutes

1. $2,035 \times 92 = 187,220$

2. $\frac{3}{5} \div 12 = \frac{3}{60} = \frac{1}{20}$ (Numerator remains the same, multiply denominator by 12)

3. $65\% \text{ of } 480 = 312$

4. $8^3 = 512$ (8^3 means $8 \times 8 \times 8$ not 8×3)

5. $7 - 0.91 = 6.09$



Maths

18.5.20

LO: Calculate, estimate and compare volume of cubes and cuboids

Key facts and vocabulary:

Volume – the amount of space a 3D shape takes up

Length x width x height = volume

Steps to Success:

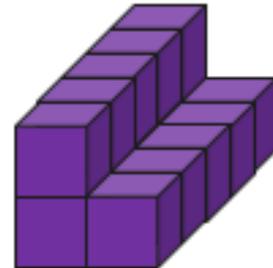
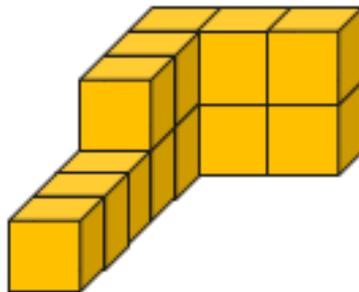
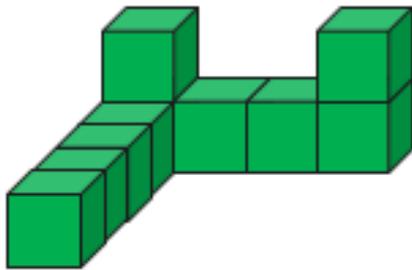
1. Count cubes to find the volume
2. Estimate the amount of cubes in a shape
3. Estimate the volume of a 3D shape

Task 1

What Is Volume?

We can find the volume of these shapes made from 1cm^3 multilink cubes by counting the number of 1cm^3 cubes that make up each shape.

Remember that some shapes have cubes that are hidden from sight!

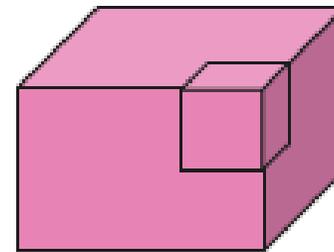
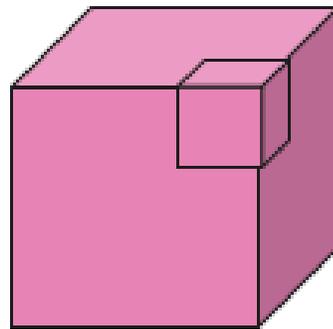
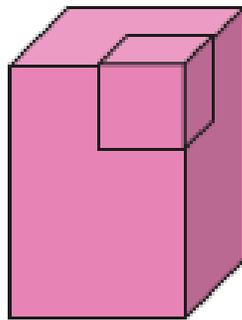


Task 2

Calculating Volume of Cubes and Cuboids



On these shapes, one cube has been drawn.
Each cube is a cubic centimetre. Estimate the volume.



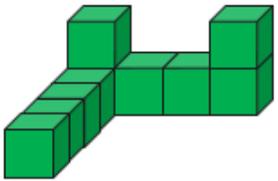
Answers

Task 1

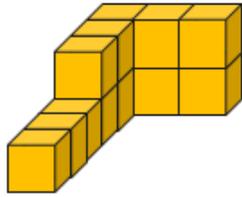
What Is Volume?

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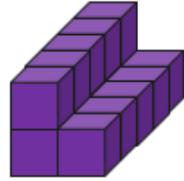
Remember that some shapes have cubes that are hidden from sight!



10cm^3



13cm^3



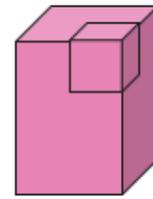
15cm^3

Task 2

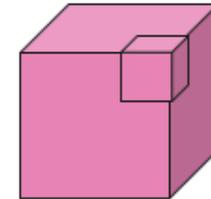
Calculating Volume of Cubes and Cuboids



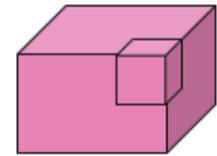
On these shapes, one cube has been drawn. Each cube is a cubic centimetre. Estimate the volume.



12cm^3



27cm^3



18cm^3

Monday 18th May 2020

LO: to write descriptively from a character's perspective

Activity 8: Through the eyes of a character



One of the things I love exploring when I'm writing is what must be going on in a character's mind. Whenever I read great portal stories, I always try to put myself into the shoes of the character, to try to imagine how they must be feeling as they discover this passageway to a new world. How must Alice have been feeling as she fell through the never-ending tunnel into Wonderland?

First, think of your character – it's easier if you base this on someone you know.

- What are they called?
- What do they look like?
- What sort of a person are they (miserable/friendly/kind/aggressive)?
- What do they say?
- What do they do?
- How do they treat other people?
- How do other people treat them?

Now compose a short piece of descriptive writing based on seeing a mysterious door through the eyes of your character. To do this, we will use a simple opener to drop the reader straight into the action:

Samantha stared. ...

Ali hesitated. ...

We will also try to use some of the tools we explored in *The Snow Walker's Son*. Look at this example:

Samantha stared. There, rising out of the cliff, was an unfamiliar door; its metallic panels were tarnished in rust. Paint flaked off the brittle walls that made up its frame and the door handle rattled in the bitter breeze. Slowly, Samantha gazed all around her, took a deep breath and stepped forward.



★ Now Imagine your main character is walking along the road when they come across a mysterious doorway. Describe this through their eyes. Use my model above to help you.

Creative

Monday 18th May 2020

LO: to explain how fossils are made

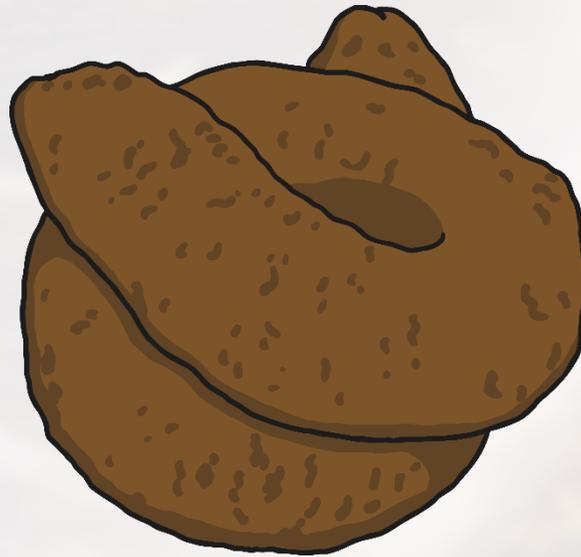
Task

- Read the presentation slides.
- In your own words, describe and explain how fossils are formed.
- You could write a paragraph, draw a cartoon script or layout a flow chart to present your work in an interesting way.

What is a Fossil?

Fossils are the stone remains of dead animals or plants.

Fossils are usually the skeletons of animals and plants but not always.
Fossils can also be things made by animals like footprints or poo!



What is a Fossil?

The most common way that fossils are formed is when small animals like flies and spiders get covered by tree sap they get trapped. The tree sap hardens to form solid amber, preserving them for thousands of years.



What is a Fossil?

Sometimes a whole animal can get trapped in ice, freezing them for thousands of years. Palaeontologists (people who study fossils) have found woolly mammoths that have been preserved this way.



How are Fossils Made?

Ice is excellent at preserving whatever may be frozen in it. A mammoth thought to be about 10,000 years old, recently discovered in Siberia, was preserved so well in the ice that the carcass still contained some of its blood. Scientists analysed the blood and found that the mammoth had evolved so that its blood could supply more oxygen around its body which is vital in icy climates. This is something that modern elephants (which are related to mammoths) cannot do.

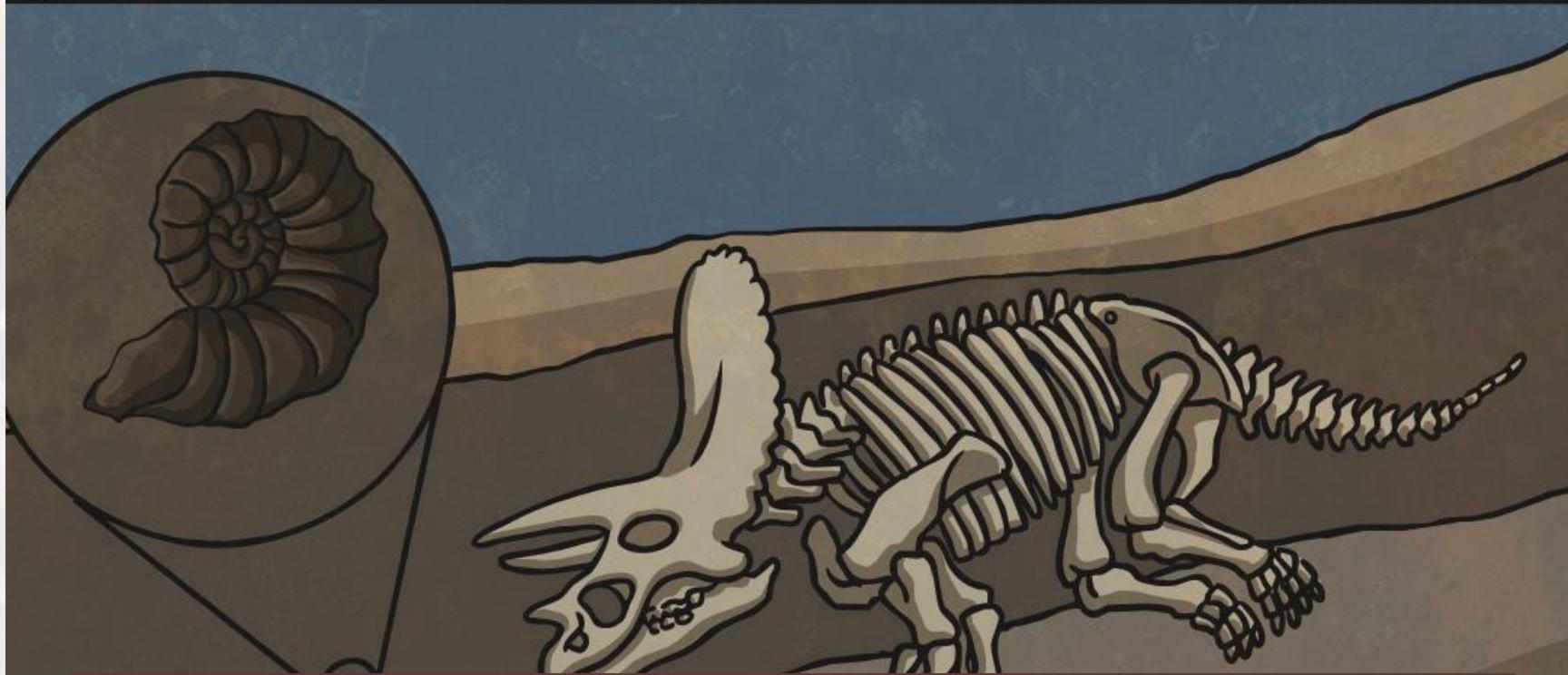


Demonstration: How is a Fossil Made?



An animal or creature dies. Its remains get covered in mud and dirt over time.

Demonstration: How is a Fossil Made?



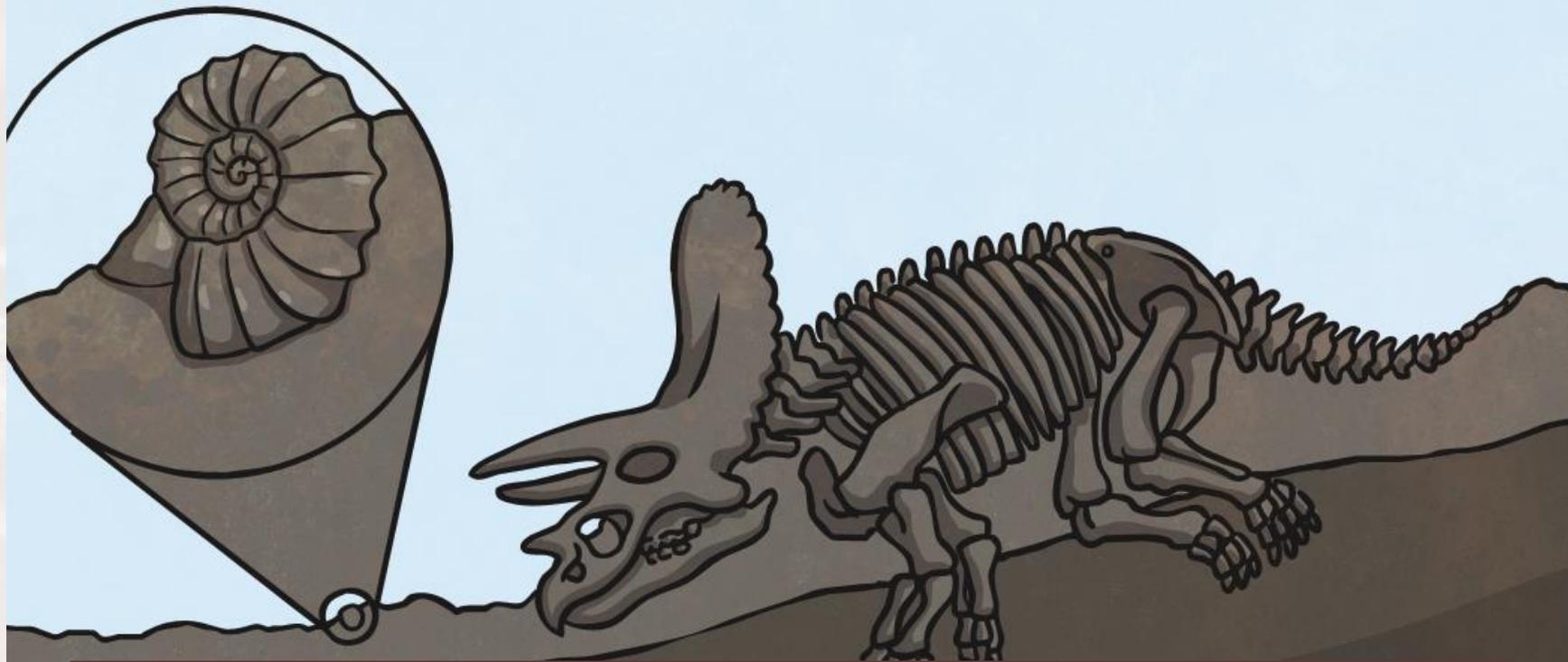
Over thousands of years, pressure builds up from all the layers of rock and mud covering the skeleton. The skeleton is dissolved by ground water. This makes a perfect mould of the skeleton.

Demonstration: How is a Fossil Made?



Minerals in the ground water begin to fill the mould of the skeleton. These minerals form rock within the mould (this takes at least 10,000 years).

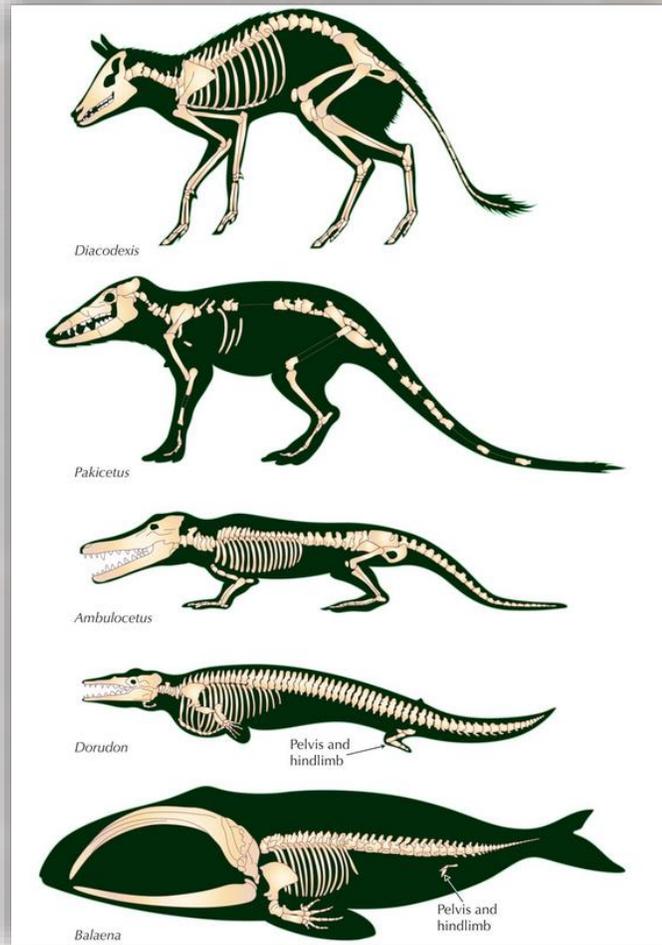
Demonstration: How is a Fossil Made?



Finally all that's left is a perfect fossilised skeleton. Over time, the layers of rock and earth erode away leaving the fossil to be found.

Fossils and Evolution

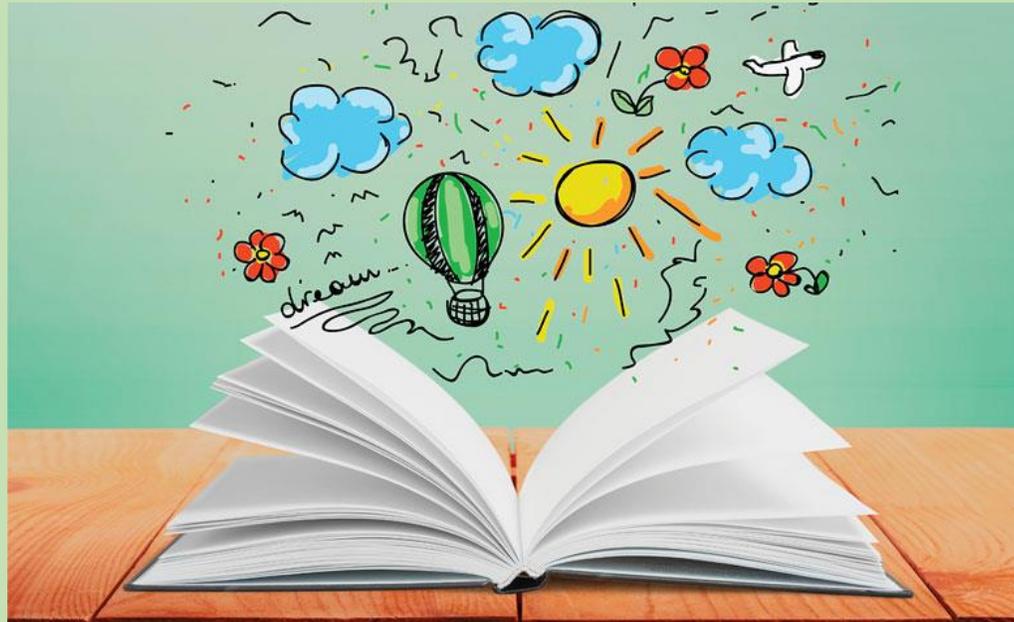
Fossils are very useful for telling us more about how animals and plants have evolved over time.



For example, palaeontologists think that these fossil skeletons show how whales might originate from land animals.

Tuesday 19th May 2020

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Maths

19.5.20

Fluent in 5

Complete these 5 questions in 5 minutes

1. $\frac{3}{4} \times \frac{1}{8} =$

2. $\frac{2}{7} \div 9 =$

3. 15% of 900 =

4. $800 - 2 \times 24 =$

5. $3 - 0.77 =$



Answers:

Fluent in 5

Complete these 5 questions in 5 minutes

1. $\frac{3}{4} \times \frac{1}{8} = \frac{3}{32}$

2. $\frac{2}{7} \div 9 = \frac{2}{63}$

3. $15\% \text{ of } 900 = 135$

4. $800 - 2 \times 24 = 752$ (BODMAS – multiplication before subtraction)

5. $3 - 0.77 = 2.23$



Maths

19.5.20

LO: Calculate, estimate and compare volume of cubes and cuboids

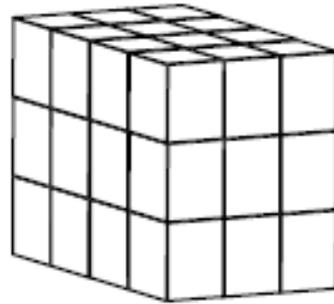
Steps to Success:

1. Length x width x height = volume
2. Answer in cm^3/m^3

Task 1

1. Calculate the volume of these shapes.

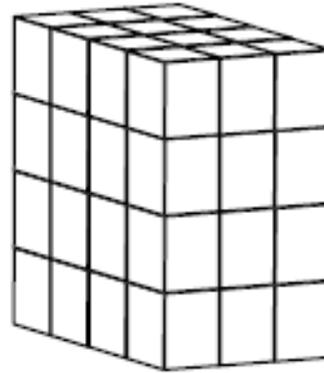
a)



Each small cube is a cubic centimetre.

volume = cm^3

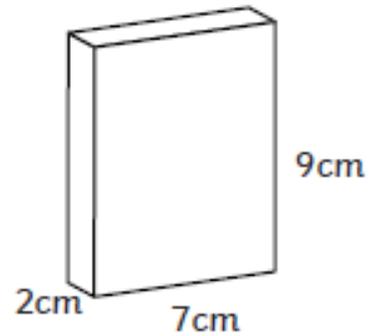
b)



Each small cube is a cubic metre.

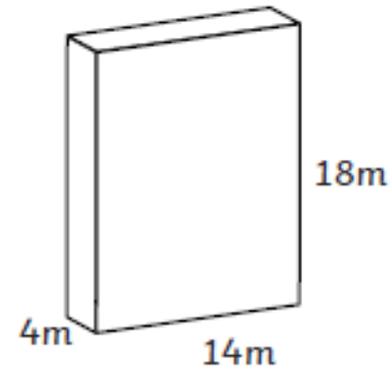
volume = m^3

c)



volume =

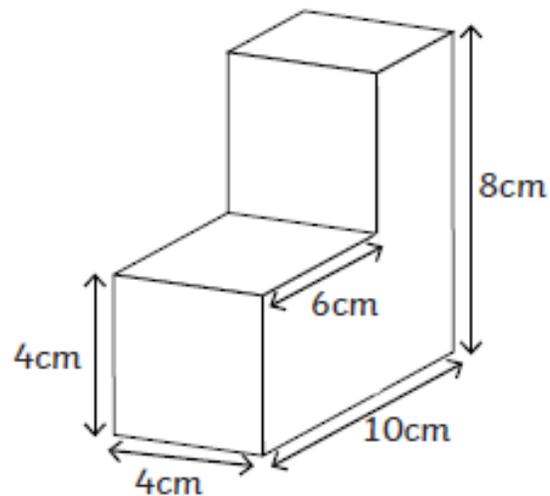
d)



volume =

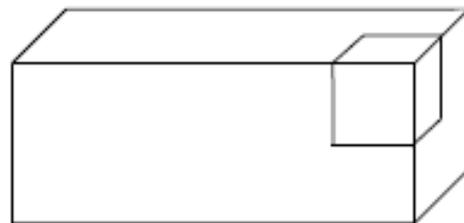
Task 2

2. Calculate the area of this composite shape.



3. Estimate the volume of these shapes.

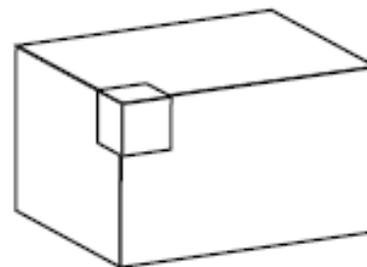
a)



Small cube = 1 cubic centimetre

Estimation =

b)



Small cube = 1 cubic metre

Estimation =

Answers

Task 1

- a) 36 cm^3
- b) 48m^3
- c) 126cm^3
- d) $1,008\text{m}^3$

Task 2

- 2) 224cm^3
- 3a) 20cm^3
- 3b) 60m^3

Tuesday 19th May 2020

LO: to plan a portal story

<https://www.talk4writing.co.uk/wp-content/uploads/2020/04/Y6-Unit.pdf>

Nearly all portal stories follow a similar pattern:

- Main character (MC) finds magical portal & enters new world
- Describe new world
- MC explores this new world & encounters a problem
- MC has to escape & return through the portal
- MC cannot find portal again
(sometimes brings back a memento of new world)

Once you have identified the pattern of the story, the possibilities are endless. Let your imagination run free. Brainstorm lots of ideas and then decide which captures your interest as a writer. Before you start, take a look at my top tips.

Top tips for story writing:

- **Start in a world/a setting that you know well** – it is far easier to describe something familiar to you, e.g. a garden, your school, your local town, etc.
- **Use a stimulus (e.g. picture) for the new world** – an image will help you focus in on the detail and describe what is there.
- **Let your ideas flow** – don't worry about spelling, handwriting or presentation ... you can go back and edit this later.

Here are a couple of ideas to open your mind to the world of possibility:

Underlying Pattern	Story idea 1	Story idea 2
Main character (MC) finds magical portal and enters new world	Elif is playing in her Grandmother's garden and notices a small fairy door. Touches door and shrinks/ enters.	Josh and Archie playing hide and seek in their house. Archie opens hatch in the roof and discovers new world.

★ Using this underlying pattern, plan a few portal stories of your own. You may like to draw upon your own personal experience as well as your wider reading and imagination. I have also included two pictures in case they help you.



Creative

Tuesday 19th May 2020

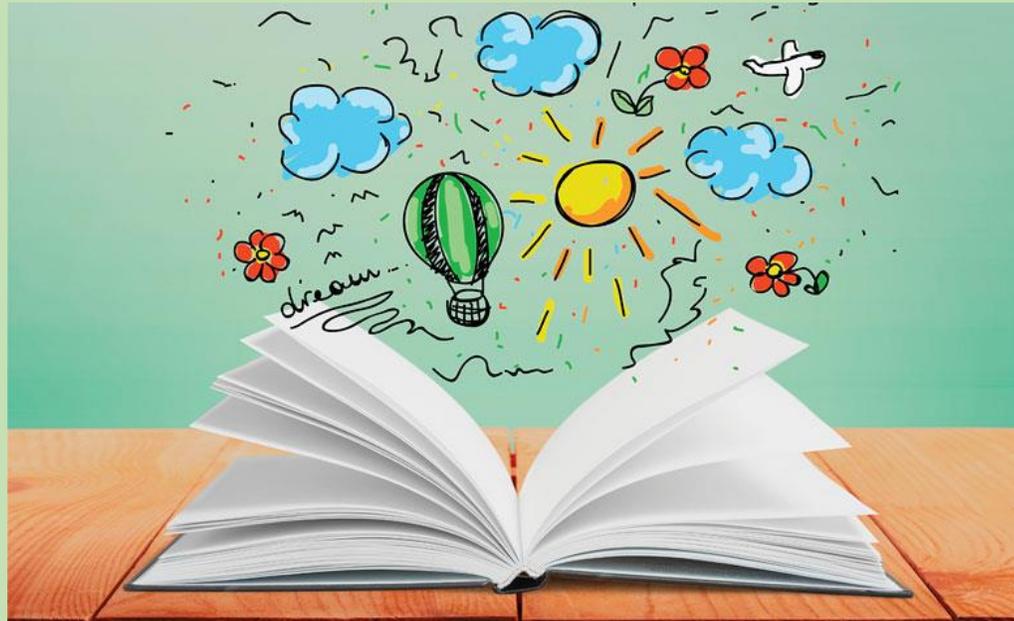
LO: to predict the origin of a fossil

Task

- Watch this video <https://www.youtube.com/watch?v=fEYJUK3sz8c>
- Follow this link
https://www.google.co.uk/search?q=fossils+ks2&sxsrf=ALeKk00JctwDPpPK8FOJ7qJxNQLWOkRZgQ:1589302708535&source=Inms&tbm=isch&sa=X&ved=2ahUKEwiCwYf75a7pAhUpSBUIHdvxDpsQ_AUoAnoECA4QBA&biw=1366&bih=625
- Select two/three fossils and draw them
- Write a brief explanation as to what animal you think the fossil is. You can use labels if you wish.

Wednesday 20th May 2020

Please remember it is really important for you to read everyday for at least 10 minutes. It is a good idea to read lots of different texts, not just fiction.



Maths

20.5.20

Fluent in 5

Complete these 5 questions in 5 minutes

1. $5,116 \times 33 =$

2. $9 \times 12 \times 0 =$

3. $(500 - 1) + (25 \times 7) =$

4. $95\% \text{ of } 2,000 =$

5. $8 - 0.06 =$



Answers:

Fluent in 5

Complete these 5 questions in 5 minutes

1. $5,116 \times 33 = 168,828$

2. $9 \times 12 \times 0 = 0$

3. $(500 - 1) + (25 \times 7) = 674$

4. $95\% \text{ of } 2,000 = 1,900$

5. $8 - 0.06 = 7.94$



Maths

20.5.20

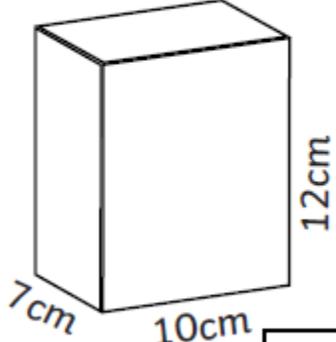
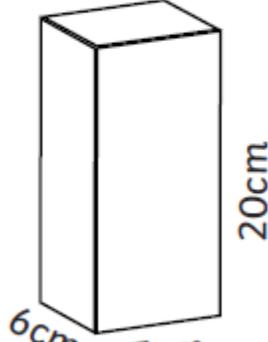
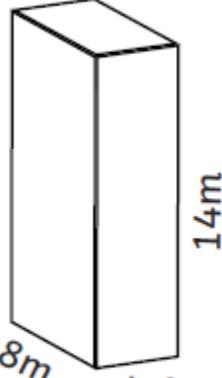
LO: Calculate, estimate and compare volume of cubes and cuboids

Steps to Success:

1. Length x width x height = volume
2. Answer in cm/m³

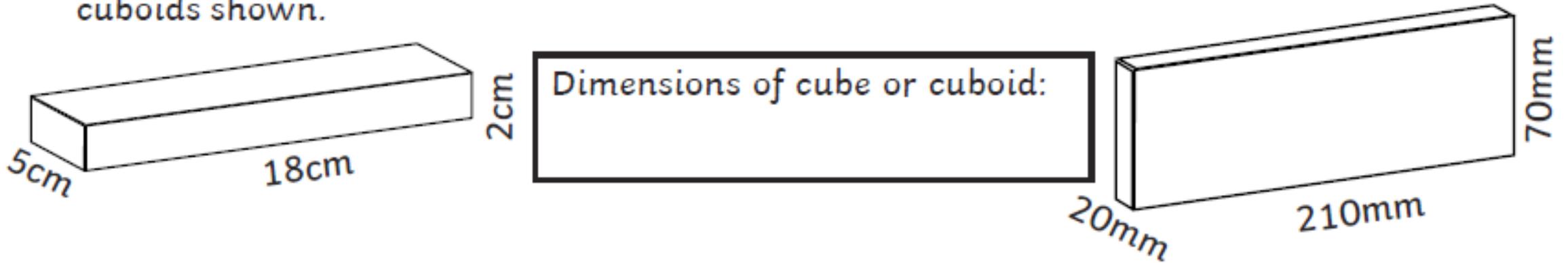
Task 1

1. Calculate the volume of each shape, then use $<$, $>$ or $=$ to compare them.

<p>a)</p>  <p>7cm 10cm 12cm</p> <p>volume = <input type="text"/></p>	 <p>6cm 7cm 20cm</p> <p>volume = <input type="text"/></p>
<p>b)</p>  <p>8m 4m 14m</p> <p>volume = <input type="text"/></p>	 <p>3.7m 11m 6m</p> <p>volume = <input type="text"/></p>

Task 2

3. Give the dimensions of a cube or cuboid that would be between the volumes of the two cuboids shown.



- Find volumes of two cuboids shown
- Convert to same unit of measurement (cm/mm)
- Find a cube/cuboid where the volume falls in between the two volumes you have found.

Answers

Task 1

a) volume = 840cm^3	=	volume = 840cm^3
b) volume = 448m^3	>	volume = 244.2m^3

Task 2

Dimensions of cube or cuboid, that give a volume greater than 180cm^3 and less than 294cm^3 , e.g. $5\text{cm} \times 5\text{cm} \times 8\text{cm}$ or $5\text{cm} \times 6\text{cm} \times 7\text{cm}$.

Wednesday 20th May 2020

LO: to write a portal story

Session 10: Writing your own story

You now have all of the tools required to write your own portal story. You may like to write about a more traditional portal that leads you to a magical world, or you may prefer to draw upon your personal experiences, as we have explored throughout this unit.

To recap on all the key points we've been learning:

- a. **Describe the portal in detail.** You may want to show the portal through the eyes of the main character.
- b. **Think about what lies on the other side of the door.** Allow yourself the opportunity to write about what interests you and what is important to you.
- c. **Great writers steal ideas ('magpie') from other great writers.** Reflect upon the portal stories that you have loved reading and consider what made these so engaging. Try to bring in some of these skills and techniques into your own work.
- d. **Enjoy it.** Writing is all about sharing a passion for words, stories and the world of possibility. If you love the story you are writing – so too will your reader.

★ Now write your portal story, drawing on all that you have learned. Don't forget to share or publish your work – great writing deserves an audience!



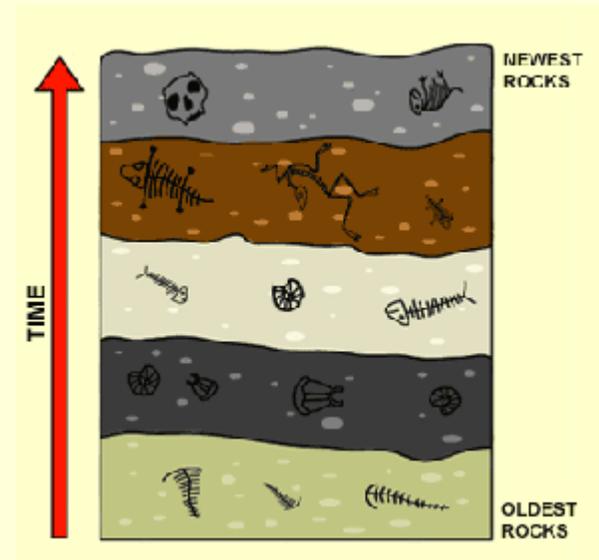
Creative

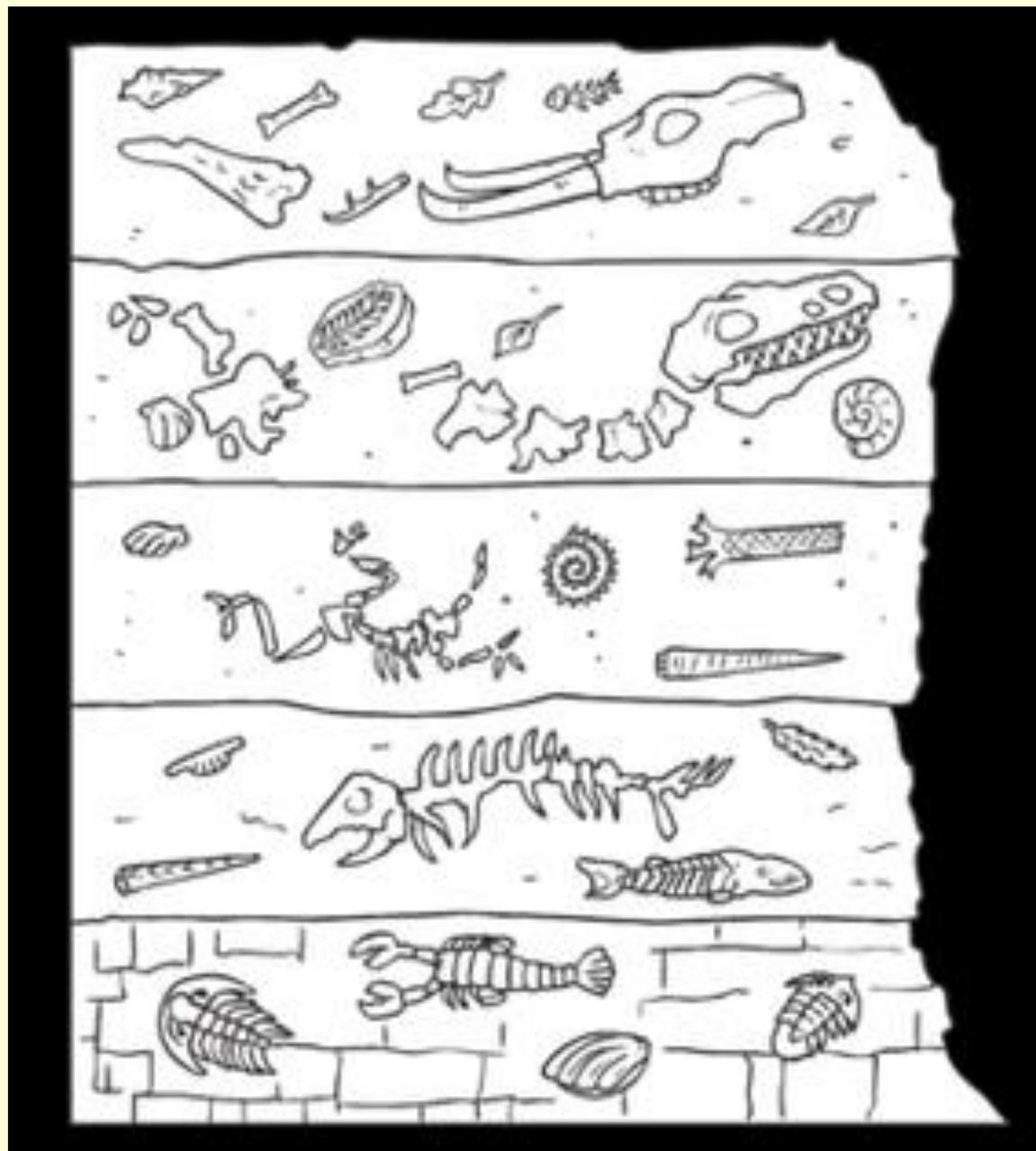
Tuesday 19th May 2020

LO: To Recognise that fossils provide information about living things that inhabited the Earth millions of years ago.

Task

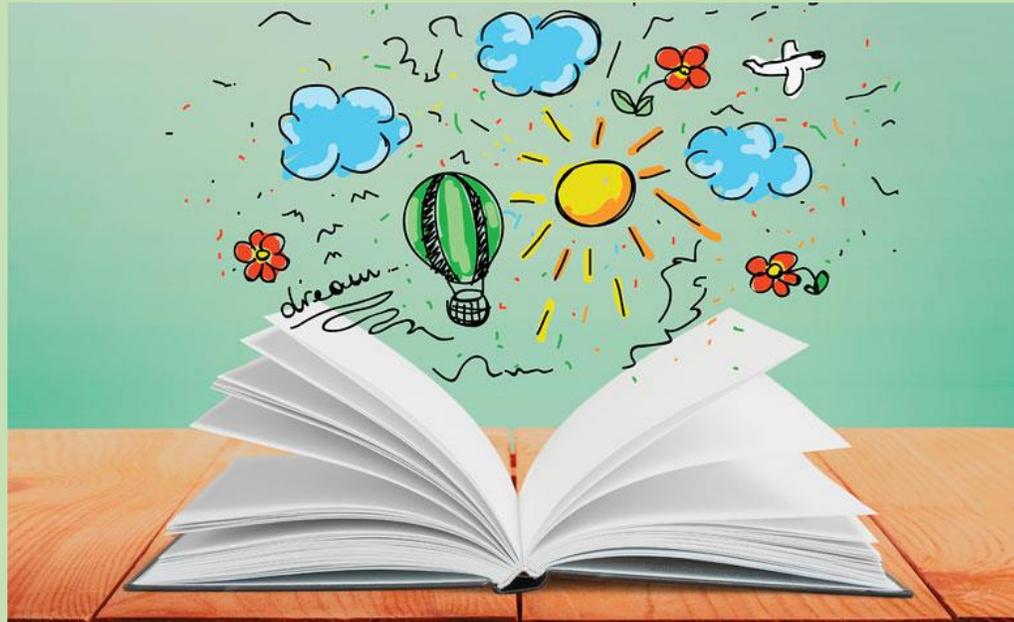
- https://hamiltontrust-live-b211b12a2ca14cbb94d6-36f68d2.divio-media.net/documents/UKS2_DF_BlK_A_FossilsRocks_S2_resources1.pdf
- You will fill in each section of the 'fossil cake' by showing which animals fit into each section.
- You may need to use the internet to research this.
- An example is included on the next slide.





Thursday 21st May 2020

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Maths

21.5.20

Fluent in 5

Complete these 5 questions in 5 minutes

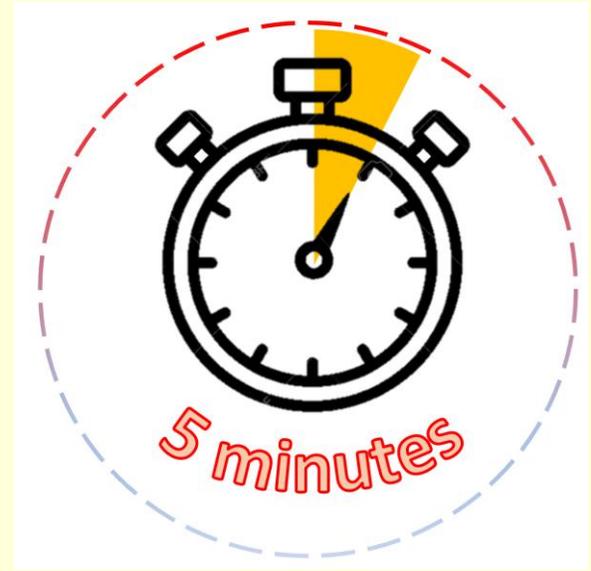
1. $\frac{1}{6}$ of 240 =

2. 7.5% of 700 =

3. $12^3 =$

4. $0.005 \times 1,000 =$

5. $60 - 5 \times 5 =$



Answers:

Fluent in 5

Complete these 5 questions in 5 minutes

1. $1/6$ of 240 = 40

2. 7.5% of 700 = 52.5

3. $12^3 = 1,728$

4. $0.005 \times 1,000 = 5$

5. $60 - 5 \times 5 = 35$



Maths

21.5.20

LO: To solve reasoning problems involving volume

Steps to Success:

I can break down complex problems into smaller steps.

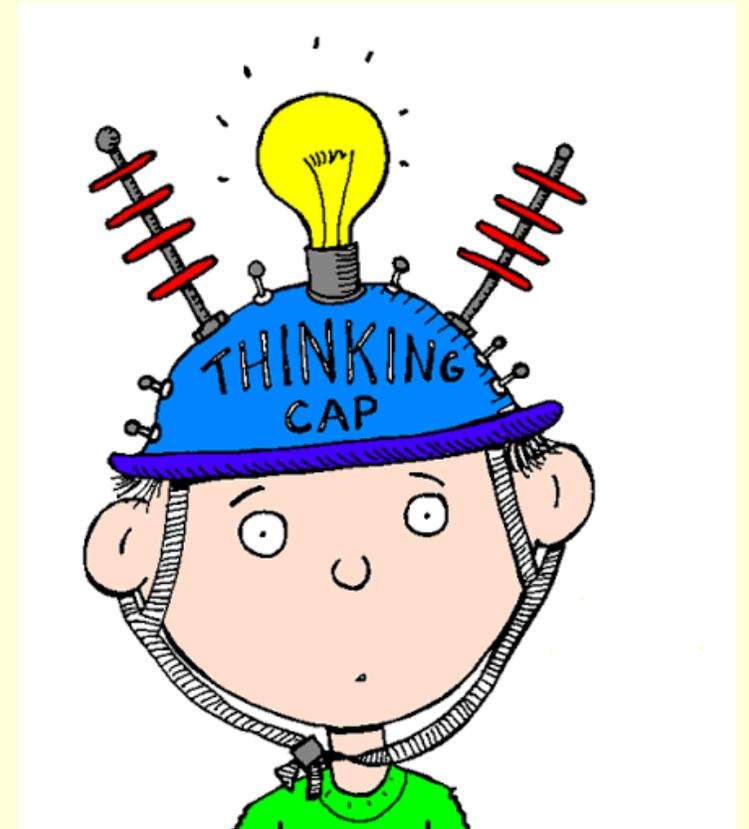
I can use mathematical language to explain solutions to problems.

Task 1

Two cuboids have a combined volume of 240cm^3 .

The first cuboid's dimensions are $9\text{cm} \times 4\text{cm} \times 2\text{cm}$.

What is the volume of the second cuboid?



Task 2

A cube has a volume which is more than 300cm^3 , less than 600cm^3 and is an odd number.

What are the dimensions of the cube?

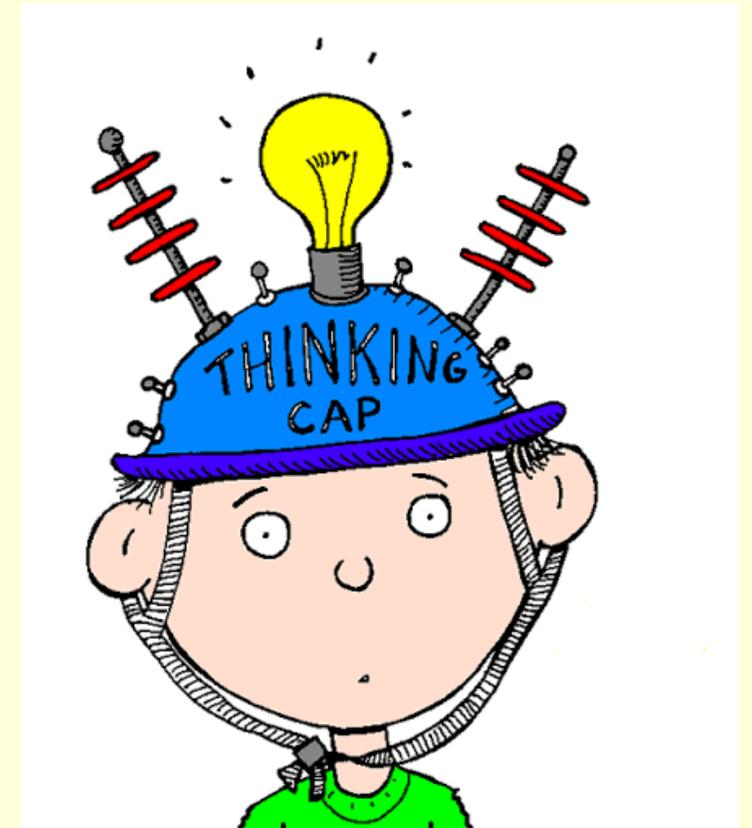
A box has dimensions of 13cm, 11cm and 2cm.

There are two piles of boxes.

The pile on the left has 9 single boxes placed one on top of another.

The pile on the right has three boxes side by side in 4 rows.

Which pile of boxes has the greater volume and by how much?



Answers

Task 1

168cm³

Task 2

- **The dimensions of the cube are: 7cm × 7cm × 7cm.**
- **The pile on the right has the greater volume by 858cm³.**

Thursday 21st May 2020 (Continue)

LO: to write a portal story

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Grammar

Thursday 21st May 2020

LO: to identify synonyms and antonyms

Key Information:

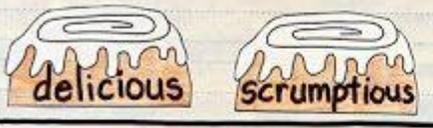
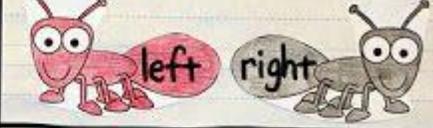
Synonyms – words that share the same meaning

Antonyms – words that have an opposite meaning

Examples: . . .

Task: Find one synonym and one antonym for each of the following words. Challenge: Use in a sentence.

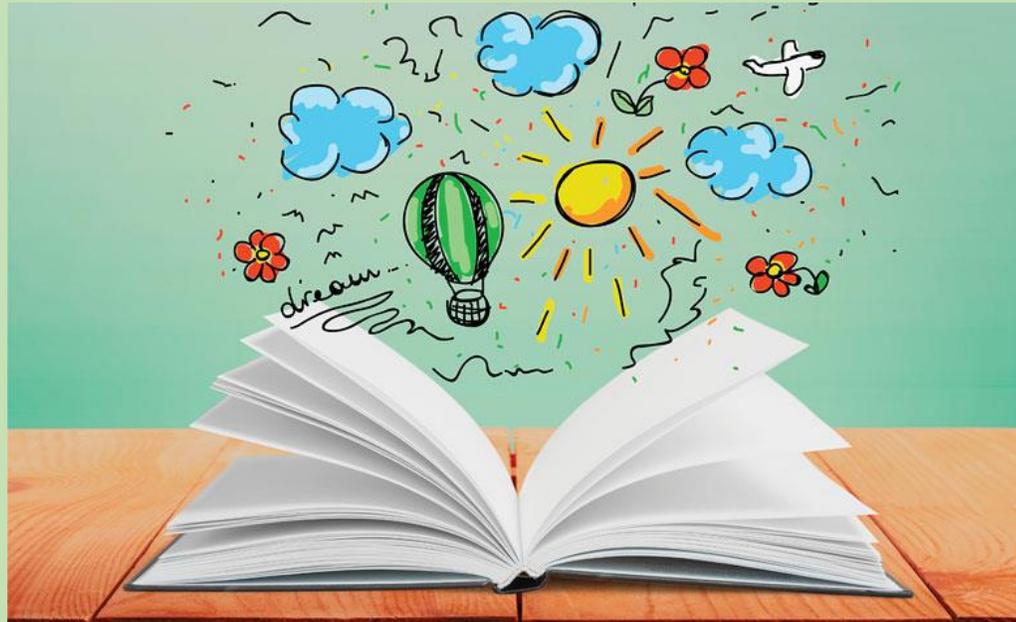
1. Nervous
2. Light
3. Dark
4. Confused

Synonyms Same	Antonyms Opposite
	
start - begin pretty - lovely quick - fast large - enormous scared - frightened tired - sleepy sick - ill bring - carry woman - lady rich - wealthy smart - intelligent	loud - soft fast - slow several - few front - back last - first older - younger nervous - brave early - late serious - silly sharp - dull full - empty



Friday 22nd May 2020

Please remember it is really important for you to read everyday for at least 10 minutes. It is a good idea to read lots of different texts, not just fiction.



Maths
22.5.20



Arithmetic Paper 2

<https://myminimaths.co.uk/year-6-arithmetic-practice-paper-week-2/>

Arithmetic Paper 2 Answers

<https://myminimaths.co.uk/year-6-arithmetic-practice-paper-week-2-answers/>

Website does not require any usernames or passwords to use; it should be accessible for everyone.

Maths

22.5.20

LO: To solve problems involving volume

Steps to Success:

I can break down complex problems into smaller steps.

I can use mathematical language to explain solutions to problems.

Volume of a Cuboid

Deepest

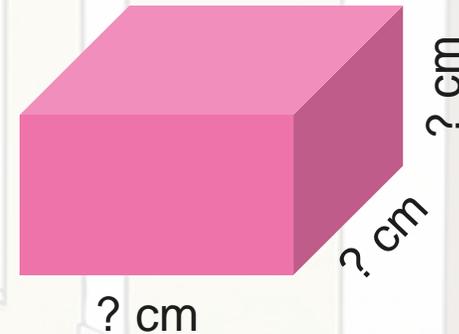


Use the formula $\text{length} \times \text{width} \times \text{height}$ to calculate the volume of a cuboid.

A cuboid has sides that are whole numbers. No side is smaller than 3cm or longer than 10cm. It has a volume between 80cm^3 and 85cm^3 .

Give the possible dimensions for the cuboid.

Find two more different sets of answers.
(Rearranging the order of the measurements is not accepted as a different answer.)



Possible answers:

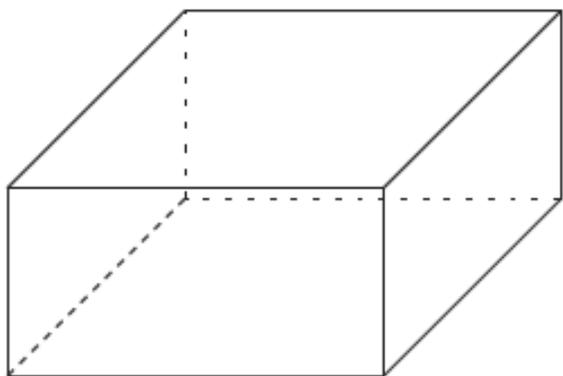
length = 3cm
width = 4cm
height = 7cm
 $3 \times 4 \times 7 = 84\text{cm}^3$
volume = 84cm^3

length = 3cm
width = 3cm
height = 9cm
 $3 \times 3 \times 9 = 81\text{cm}^3$
volume = 81cm^3

length = 4cm
width = 5cm
height = 4cm
 $4 \times 4 \times 5 = 80\text{cm}^3$
volume = 80cm^3

2) Ada measures the sides of this cuboid in order to find the volume.

Not drawn to scale



All of the sides are even numbers.

I calculated that the volume of my shape was 17cm^3 .



I don't think Ada's answer can be correct if all the sides were even number.



Do you agree with Chelsea? Explain your reasoning.

2) Chelsea is correct. If all of Ada's side measurements were even numbers, the answer cannot be an odd number. This is because an even number \times even number \times even number = an even number.

For example:

$$4 \times 2 \times 8 = 64\text{cm}^3$$

Friday 22nd May 2020 (Continue)

LO: to edit and improve my writing

Use the following tick grids to help you mark and edit your writing. Do this in a different coloured pen if you wish!

Add things:

Detail:

- | | |
|--|-----------------------------------|
| <input type="checkbox"/> adjectives | <input type="checkbox"/> simile |
| <input type="checkbox"/> adverbs | <input type="checkbox"/> metaphor |
| <input type="checkbox"/> Add more interesting or complex connectives | |
| <input type="checkbox"/> Add Interesting openings to sentences | |
| <input type="checkbox"/> Add an extra sentence – complex sentence or short sentence for effect | |

Add more interesting punctuation:

- | | | | | |
|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|
| <input type="checkbox"/> ? | <input type="checkbox"/> ! | <input type="checkbox"/> () | <input type="checkbox"/> : | <input type="checkbox"/> ; |
|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|

Move things: (Think about the audience and the purpose).

- Are things in the best order?

Change your sentences around:

- Start with the verb
- Move the subordinate clause
- Start with the connective
- Start with an adverb

Punctuation

Check your punctuation – is it correctly used?

Have you missed any punctuation out?

capital letters and? ! () ; :

Are your paragraphs in the right place?

Grammar and Spelling

Check your grammar.

Read your work aloud. Do all the sentences make sense?

Have you used your connectives in the right context?

Check your spelling.

Spelling

Friday 22nd May 2020

LO: to use spelling rules

This weeks spellings will look at words ending in –cious or –tious.

You will need to remember the following spelling rule.

1. If the root word ends in –ce, it will have a –cious ending
e.g. grace becomes gracious
2. If the word can have a –tion ending, it can also have a –tious ending.
e.g. Infection can also be infectious

/shus/ endings spelt –cious or –tious

Use –cious if the root word ends in –ce:

con**scious** (science)

pre**ci**ous (price)

vi**ci**ous (vice)

gra**ci**ous (grace)

fero**ci**ous (fierce)

mal**ici**ous (malice)

del**ici**ous

sus**pi**cious

Use –tious if it can also have a –tion /shun/ ending:

amb**iti**ous (ambition)

caut**io**us (caution)

infect**io**us (infection)

nutrit**io**us (nutrition)

pretent**io**us (pretention)

fi**cti**tious (fiction)

superstit**io**us (superstition)

repetit**io**us (repetition)

Complete rule breaker: anxio**us**

Task:

Delicious

Vicious

Ferocious

Malicious

Conscious

Ambitious

Cautious

Infectious

Fictitious

Nutritious

Use any of the following strategies to help you practice this weeks spellings.

Remember, if there are any words that are unfamiliar, find the meaning first.

1. Look, Write, Cover, Spell, Check
2. Word pyramids
3. Spell backwards
4. Play hangman against someone in your family!

