

Diary of a Voyager

2 Day 200

13 Today marks our 200th day on this ship. That's 200 days of seeing nothing but emptiness. It also means 200 days of the captain saying, "We'll find somewhere to settle soon enough."

36 Day 215

47 We have heard from one of the other passenger ships that 59 left Earth at around the same time that we did. Although it 71 was nice to hear from them, I wish that they had brought 76 news of a new planet.

78 Day 290

88 The captain has announced that we may have found a 99 suitable planet to land on. The scout ship has been sent 110 out to investigate. I've got my fingers and toes crossed for 112 good news.



Quick Questions



1. On which day did they hear from another passenger ship?



2. What type of ship do you think they are on? Explain your answer.



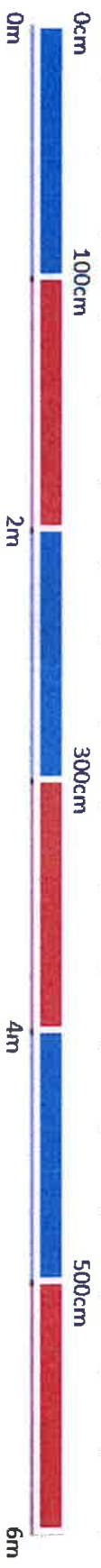
3. This text is called **Diary of a Voyager**. Invent another name which sums up the text.



4. Compare how the person writing the diary is feeling on day 200 to how they are feeling on day 290.

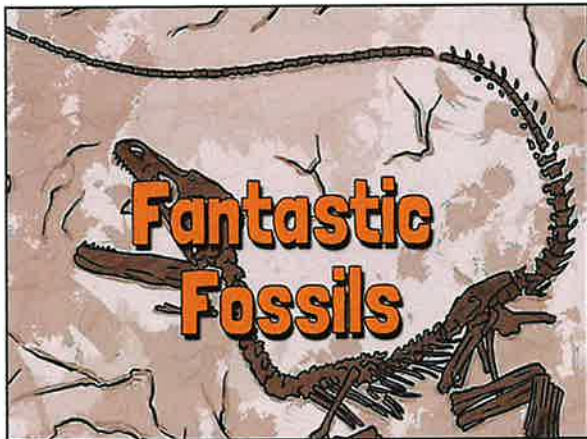
WALT: Can I convert metres into centimetres?

Complete the worksheet from Teams, the school website or your home learning pack. Don't forget to take pictures of your work!



Write these measurements in the correct place:

- | | | |
|----------|-----------|-----------|
| 1. 200cm | 9. 110cm | 17. 0.50m |
| 2. 400cm | 10. 150cm | 18. 2.50m |
| 3. 600cm | 11. 280cm | 19. 4.20m |
| 4. 50cm | 12. 350cm | 20. 5.70m |
| 5. 250cm | 13. 1m | 21. 3.90m |
| 6. 420cm | 14. 3m | 22. 1.10m |
| 7. 570cm | 15. 5m | 23. 2.80m |
| 8. 390cm | 16. 1.50m | 24. 3.50m |



WALT
Can I explain how fossils are formed?

Success Criteria

- I can explain the difference between a bone and a fossil.
- I can order the steps of how a fossil is formed.

Are Dinosaurs Real?

What evidence do you have that they are real or not real?

Where does the evidence come from?

Are Dinosaurs Real?

It is believed that **dinosaur fossils** have been found for centuries and these gave rise to some of the mythical creatures in ancient cultures. However, without documented evidence we can not know this for sure.

What we do know is that our current knowledge of dinosaurs and **paleontology** (the study of fossils) started in the 1800s. So we really have only known about them for the last 200 years! We know about dinosaurs due to the discovery of fossils and fossilised skeletons.

Bones or Fossils?

There are some key concepts we need to know before moving on.

What is the difference between bones and fossils?

Bones
Bones are any piece of the hard whitish tissue that makes up the skeleton in animals including humans.

Fossils
Fossils are more than just ancient bones, which is what many people think. There are three types of fossils - body fossils, trace fossils and chemical fossils.

Trace Fossils




These are fossils that record the activity of an animal including:

<p>Footprints</p>	<p>Trackways</p>	<p>Coprolites (fossil poo)</p>
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Fossilisation Process


There are many different ways that fossilisation occurs. However, you will focus on how fossils form in rocks (both body and trace fossils).

Fossilisation only takes place in sedimentary rocks as the heat from the lava that creates igneous rocks and changes the structure of metamorphic rocks would be too high for fossils to survive.


Fossilisation Process; Step 1

An animal or creature dies on land or in the sea and it gets covered by a layer of sediments (e.g. plant material and tiny parts of rock or soil etc). Over time, these eventually form a layer of rock.




Fossilisation Process; Step 2

Over time more layers of rock are formed which cover it and by this time the only thing to remain of the creature would be the hard parts such as bones, skulls and teeth.



Fossilisation Process; Step 3


Over a long period of time the sea will move far back in certain places. The sea level could also be changed quickly through earthquakes and volcanic eruptions.



Notice how there is no sea in this picture!


Fossilisation Process; Step 4


As erosion and weathering takes place, eventually the fossils become exposed.



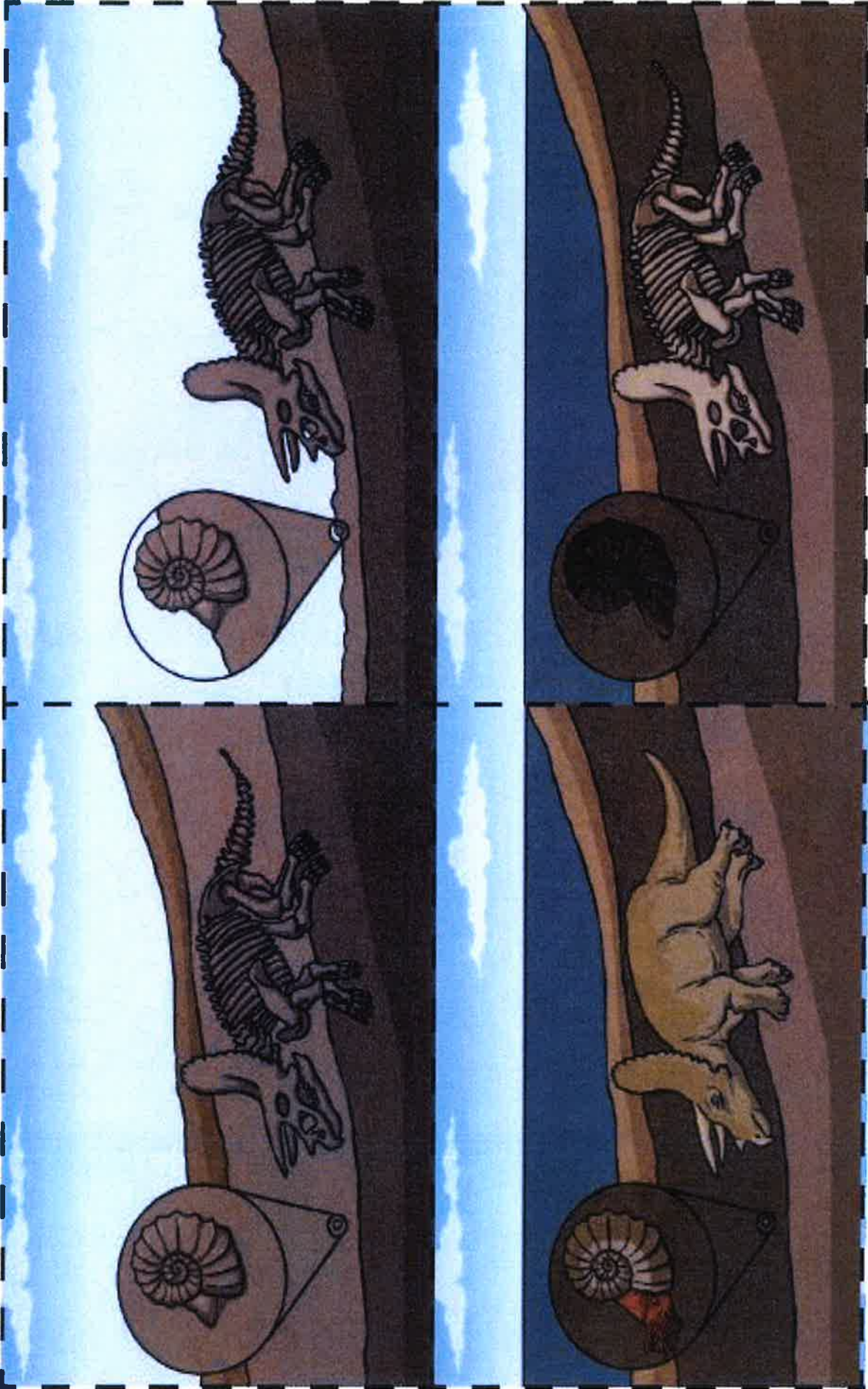
Task: Can you order the Fossilisation Process?

Write a sentence about what is happening in each picture.







play

must

something

garden

who

take

red

bed

fast

didn't

- 1) $5 \times \underline{\quad} = 10$
- 2) $\underline{\quad} \times 5 = 25$
- 3) $5 \times 10 = \underline{\quad}$
- 4) $3 \times 5 = \underline{\quad}$
- 5) $\underline{\quad} \times 5 = 55$
- 6) $5 \times \underline{\quad} = 30$
- 7) $9 \times 5 = \underline{\quad}$
- 8) $\underline{\quad} \times 5 = 0$
- 9) $5 \times \underline{\quad} = 60$
- 10) $\underline{\quad} \times 5 = 20$
- 11) $5 \times 7 = \underline{\quad}$
- 12) $\underline{\quad} \times 5 = 15$
- 13) $5 \times \underline{\quad} = 45$
- 14) $5 \times 5 = \underline{\quad}$
- 15) $\underline{\quad} \times 5 = 35$
- 16) $5 \times \underline{\quad} = 5$
- 17) $\underline{\quad} \times 5 = 60$
- 18) $5 \times \underline{\quad} = 50$
- 19) $12 \times 5 = \underline{\quad}$
- 20) $\underline{\quad} \times 5 = 40$

- 21) $5 \times 8 = \underline{\quad}$
- 22) $\underline{\quad} \times 5 = 50$
- 23) $5 \times \underline{\quad} = 55$
- 24) $4 \times 5 = \underline{\quad}$
- 25) $\underline{\quad} \times 5 = 45$
- 26) $\underline{\quad} \times 5 = 10$
- 27) $5 \times 1 = \underline{\quad}$
- 28) $5 \times \underline{\quad} = 60$
- 29) $\underline{\quad} \times 5 = 40$
- 30) $5 \times 3 = \underline{\quad}$
- 31) $\underline{\quad} \times 5 = 30$
- 32) $5 \times \underline{\quad} = 35$
- 33) $8 \times 5 = \underline{\quad}$
- 34) $5 \times 9 = \underline{\quad}$
- 35) $5 \times \underline{\quad} = 0$
- 36) $\underline{\quad} \times 5 = 55$
- 37) $5 \times \underline{\quad} = 15$
- 38) $\underline{\quad} \times 5 = 20$
- 39) $5 \times \underline{\quad} = 5$
- 40) $12 \times 5 = \underline{\quad}$