

IAL: what causes tooth decay

Watch these videos about tooth decay.

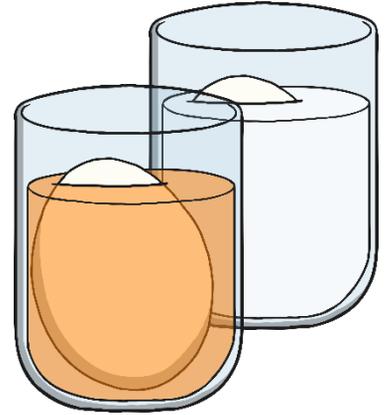
Operation Ouch: <https://www.youtube.com/watch?v=iAQUCF9n3HU>

SciShow Kids: <https://www.youtube.com/watch?v=aOebfGGcjVw>

Carry out this investigation to see which foods cause the most tooth decay.

You will need:

- Some eggs or egg shells.
- Some liquids
  - water
  - milk
  - tea/coffee
  - orange juice
  - fizzy drink
  - or any other liquid you'd like to investigate
- Cups/containers.



Setting up the investigation

- 1) Put a liquid in each container.
- 2) Observe the eggs/egg shells. What do they look like? What do they feel like?
- 3) Place an egg/piece of egg shell in each container.
- 4) Make observations every day for the next five days. What do they look like? What do they feel like?
- 5) Complete the observation table and answer the questions.

Prediction

Make a prediction about which liquid will cause the most decay to the egg/egg shell.

Explain why you think that.

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Complete the table with your observations.

Day 5					
Day 4	↑	↑	↑	↑	↑
Day 3	↑	↑	↑	↑	↑
Day 2	↑	↑	↑	↑	↑
Day 1					
Liquid					

Answer these questions based on your observations.

A Was your prediction correct? \_\_\_\_\_

Conclusion

Write here about what you found out from your observations, what effects the drink(s) had and what you learnt from this investigation.

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B What further predictions could you make as a result of your findings?

Think about other drinks or foods. Which ones would cause the most decay according to what you have found out?

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C What questions do you still need to ask or could ask to conduct another investigation on drinks and tooth decay?

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IAL: how artefacts inform our view of history

Discover some of the artefacts from the tomb of Tutankhamun

<https://tutankhamun-london.com/see-do/>

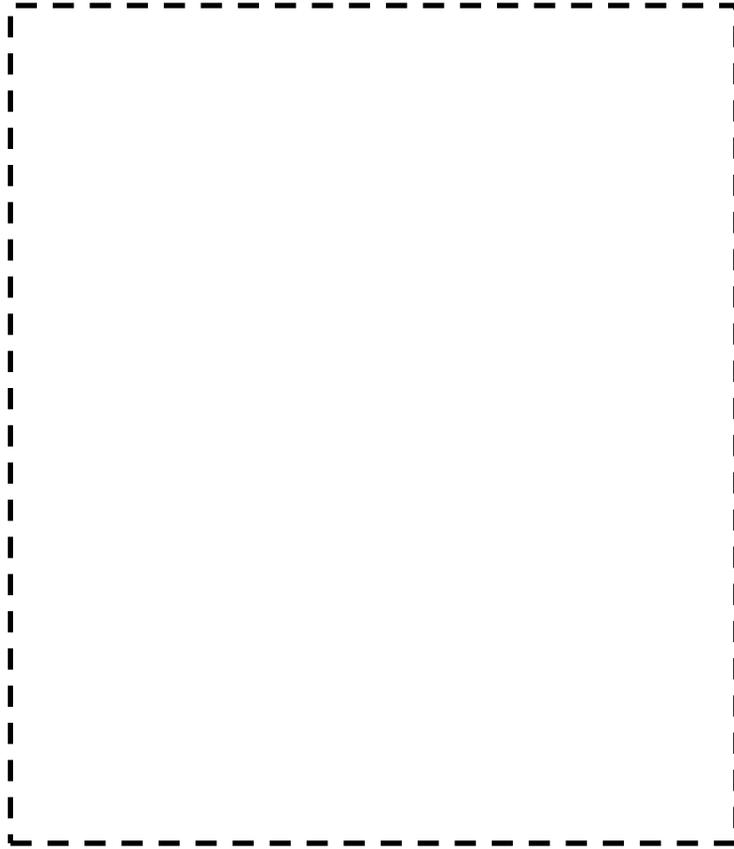
Artefacts are important sources of information about the past.

Archaeologists piece together clues to form a picture about what life was like in the past. Imagine that the room you are in is an archaeological jigsaw. What objects can you see that might help people in the future form picture of what life is like today?

For example: I can see a telephone. It tells people in the future that we talked to each other over long distances.

Object	What people in the future might learn.

Draw a picture of yourself wearing the clothes you are wearing. Include any objects that you have with you, like a pencil case.

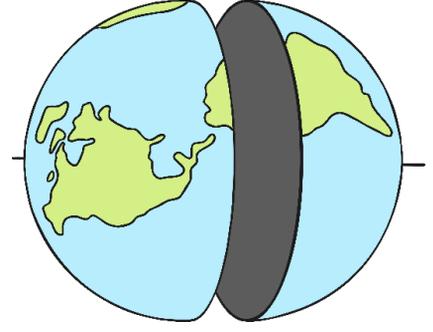
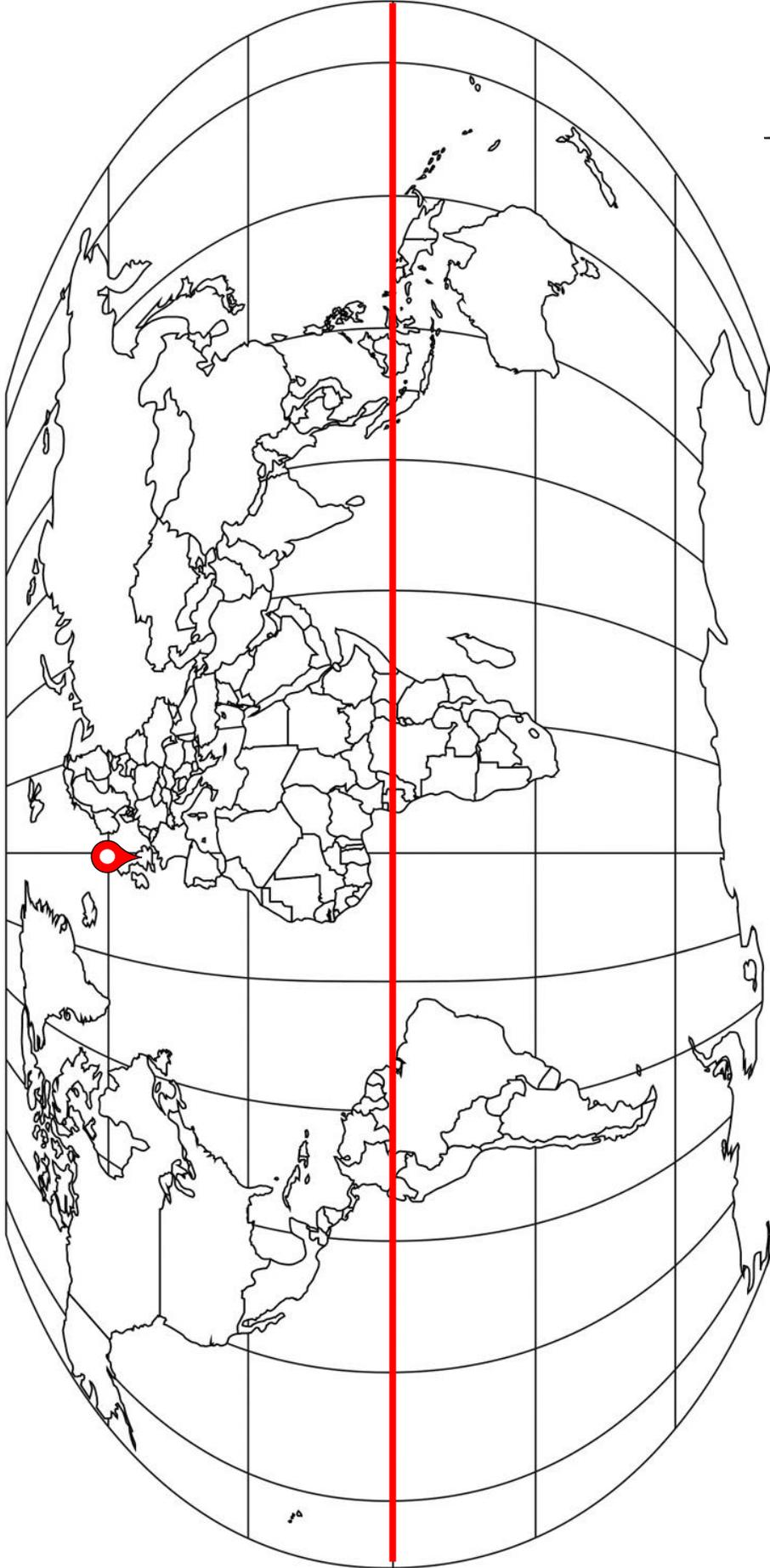


From your drawing, make a list of all the things that might survive 5000 years into the future (e.g. skeleton, plastic buttons, metal zips). Write a list of five objects from your drawing and write what you think someone in the future might learn from that object.

Object	What people in the future might learn.

IAL: about the position of the equator, northern and southern hemisphere

Here is a map of the world.



How would you describe the position of the UK, where we live?

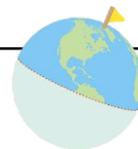
The Earth is made of two hemispheres (half a sphere). The top half is the **Northern Hemisphere** and the bottom half is the **Southern Hemisphere**.

The line that divides the two hemispheres is called the **Equator**. Can you locate the Equator on the map?

Now how would you describe the position of the UK?

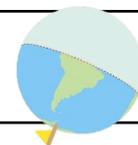
Find out about countries in the different hemispheres of Earth.

### Countries of the Northern Hemisphere



Name of Country:	Flag:
Capital city:	
Population:	
Official language(s):	
Average rainfall:	

### Countries of the Southern Hemisphere



Name of Country:	Flag:
Capital city:	
Population:	
Official language(s):	
Average rainfall:	

### Countries of the Equator



Name of Country:	Flag:
Capital city:	
Population:	
Official language(s):	
Average rainfall:	