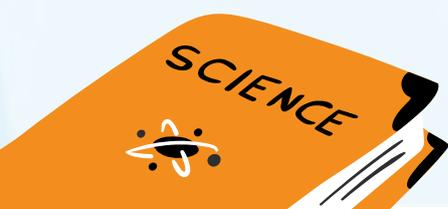
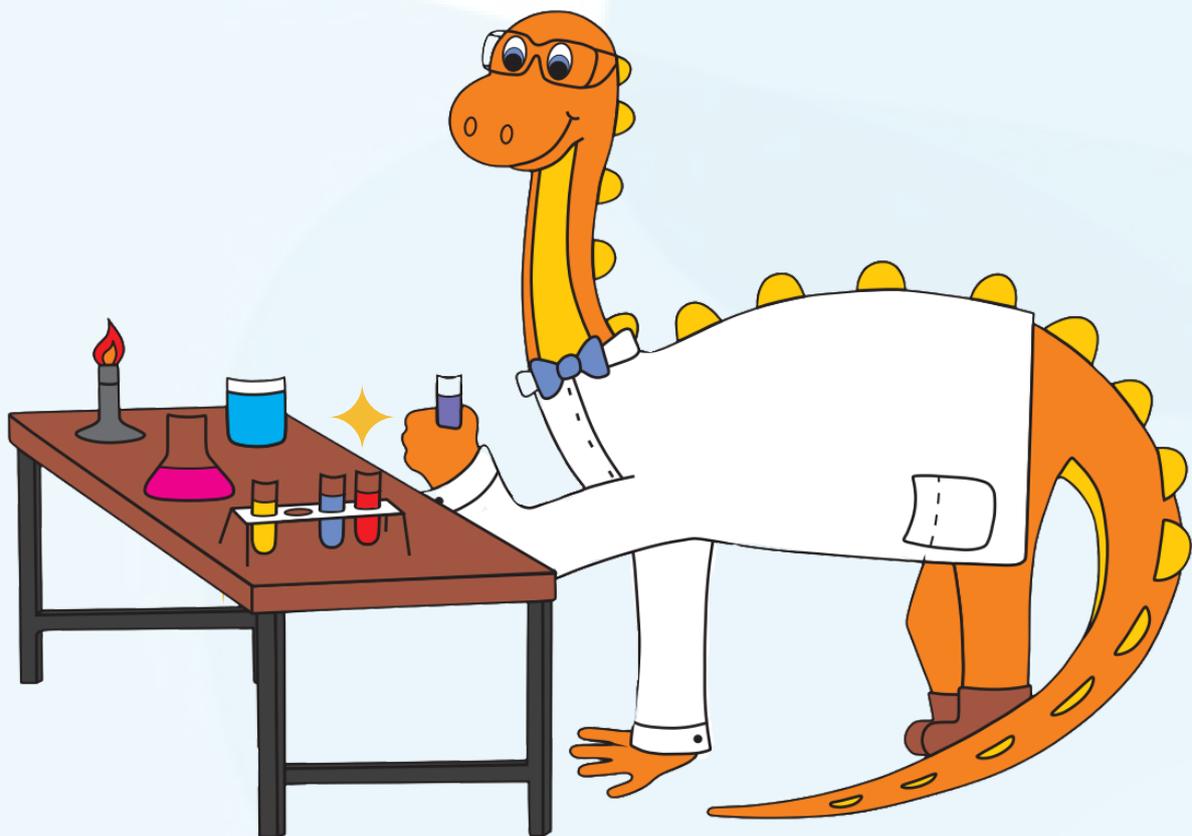


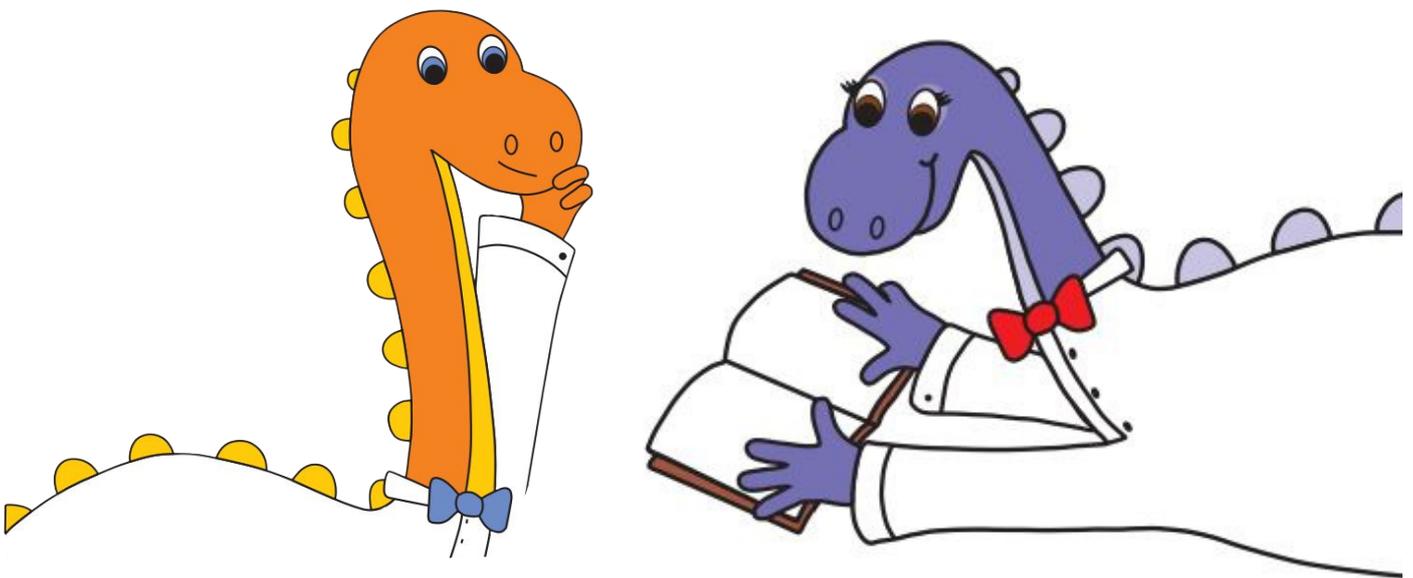


Rocks and Soils

Year 3
Assessment Questions



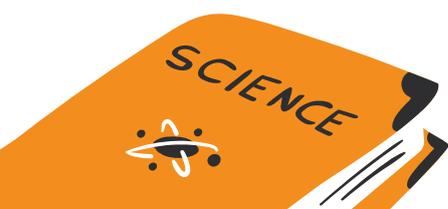
Meet Monty and Sal



Monty and Sal love science and have enjoyed learning all about rocks and soils just like you.

They have some questions for you to find out what you have learned.

Are you ready to help them answer?





What is the Earth made from?

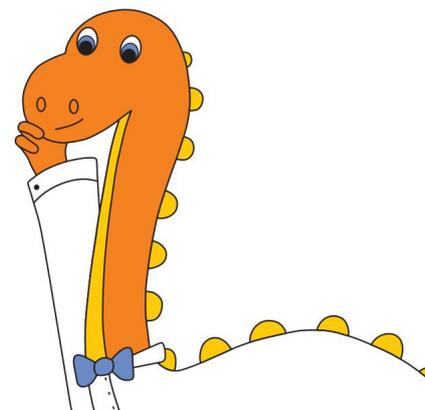
Knowledge block 1- How rocks form

Q1.



This is an image of a rock. Rocks are made up of different types of...

- a . minerals
- b. soil
- c. animals





What is the Earth made from?

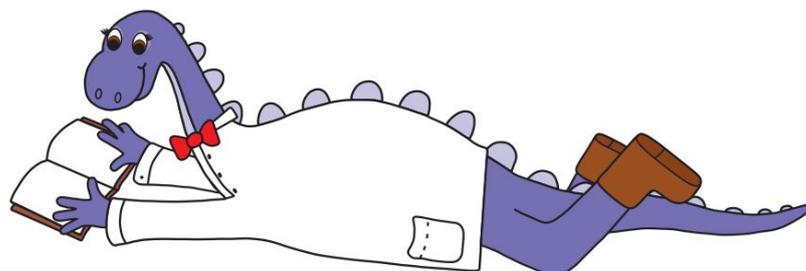
Q2. A rock that contains metals is called?

Q3.

Monty is looking at three different rocks on his desk. He has written the following description of each:

1. It is made up of grains with gaps between them, contain fossils and breaks into grains easily.
2. It is made up of crystals with no spaces. Very hard.
3. Crystals are in layers and looked squashed and heated, very hard.

Label each rock as either sedimentary, igneous or metamorphic based on Monty's descriptions.





What is the Earth made from?

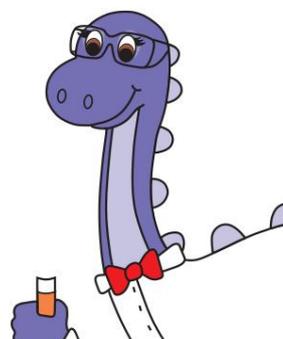
Q4: Monty has these pictures on his desk. Can you help him to sort them into sedimentary, metamorphic or igneous? Draw lines to match them to the correct group.



sedimentary

metamorphic

igneous





What is the Earth made from?

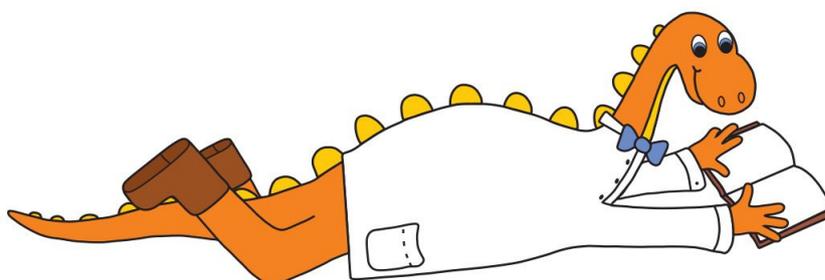
Knowledge block 2- The properties of rocks

Q1: Sal has taken three rocks and recorded down the mass of each when they were dry. She then soaked them in water for 30 minutes and after gently patting them dry she remeasured the mass.

Her results are in the table below:

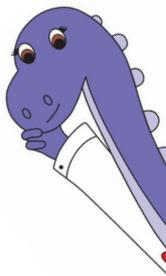


Rock group	Mass of rock dry (g)	Mass of rock wet (g)	Change in mass (g)
Sedimentary	35	53	18
Metamorphic	42	46	4
Igneous	41	48	7





What is the Earth made from?



1a. Which property was Sal investigating in this experiment

- Reaction to chemicals
- Hardness
- Porosity

1b. What has Sal discovered from her experiment

1c. Why did Sal pat each rock dry before remeasuring the mass?





What is the Earth made from?

Knowledge block 3- The properties of soils

Q1: Monty is digging up his back garden. Here is his planning mindmap for the question Which type of soil allows the most water to pass through it?

• Mass of soil
• Size of bottle

flower bed / tree stump / Wooded area
Where the soil is from
Type of soil

Same

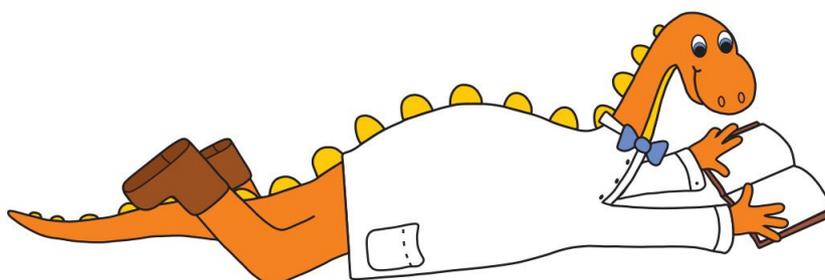
Which type of soil allows the most water to pass through it?

Water collected in bottom in ml

Change

measure

Location of soil	How much water passes through ml
Flower bed	
Tree stump	
Wooded area.	





What is the Earth made from?

a. Explain why Monty's experiment is not a fair test.

b. How might Monty collect the water in the bottom?

c. Humus is also found in soil. What is Humus ?

