

The City School, PAF Chapter, Junior Section

Science Worksheet – Year 3

Topic: Rocks and soils

Q1. Fill in the blanks with the appropriate words.

Manufactured	texture	quartz	metamorphic	sieve	layers	igneous
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- a) We can often see _____ in sedimentary rocks.
- b) Cooling lava produces _____ rocks with small grains.
- c) Glass and brick are _____ material.
- d) You can use a _____ to separate particles of different sizes.
- e) The _____ of a rock depends on the sizes, colours and shapes of the grains.
- f) Heating and squashing rocks can turn them into _____ rocks.
- g) Sandstone is made of rounded grains of _____.

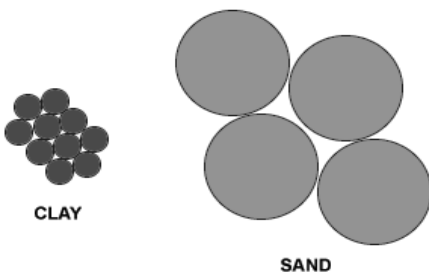
Q2. Write a use for the following rocks below.

- a) Slate _____
- b) Diamond _____
- c) Granite _____
- d) Gravel _____
- e) Pebbles _____

Q3. Give reasons:

- a) Granite is used to make door steps because _____.
- b) Permeable rocks are not good for making roofs because _____.
- c) We can often see layers in sedimentary rocks because _____.
- d) Large soil particles cannot pass through the sieve because _____.
- e) It takes a long time for water to soak into Clay soil because _____.

Q4. Write 2 differences between Clay soil and Sandy soil?



Clay soil	Sandy soil

Q5. Complete the following statements about granite.

- a) The black grains are a mineral called _____.
- b) The grey grains are _____.
- c) The _____ grains are feldspar.

Q6. Sort out the following properties of rock and write in the correct column.

Permeable hard crumbly rounded grains water proof wears away easily

Does not wear away easily

Sedimentary rock	Igneous rock	Metamorphic rock

Q7. Complete the following passage about formation of sedimentary rocks.

Most _____ get washed into rivers or streams, and get carried to lakes or to the sea. They sink down to the _____, and eventually get covered up with more sediment.

The _____ at the bottom get squashed, and eventually change into _____ rocks like sandstone or _____. This takes _____ of years.

Q8:



- Slate**
 - Has lots of layers.
 - Hardwearing.
 - Good for roof tiles.
- Sandstone**
 - Crumbles easily.
 - Lets water through.
 - Decorative.
- Marble**
 - Can be polished.
 - Shiny
 - Very strong.
 - Waterproof.
- Granite**
 - Strong.
 - Difficult to scratch.
 - Waterproof.

Tick the boxes below using the information on the stone tables:

	Slate	Sandstone	Marble	Granite
Soft				
Hard				
Permeable				
non permeable				
Can be shiny				
dull				

Q9. Observe the picture carefully then answer the question.

a) Magma is inside the Earth, when it cools down which type of igneous rocks are formed? Give an example.

b) Lava is on the surface of the Earth, when it cools down which type of igneous rocks are formed? Give an example.

