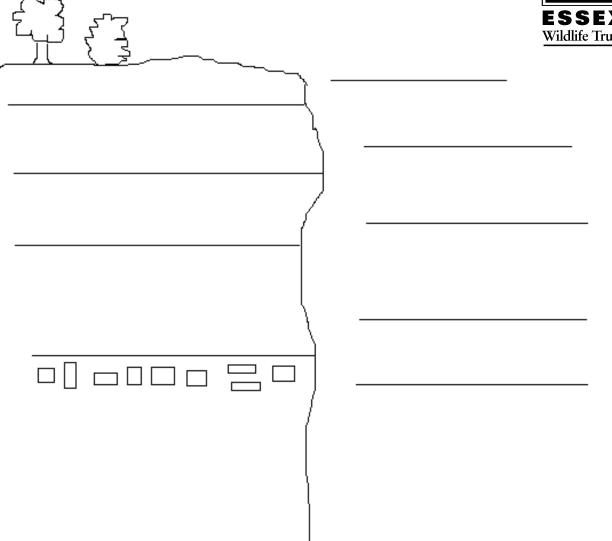
Rocks and Soils Work book





Today you will be studying rocks and soils.

You will see the different layers of rocks in the cliffs of Chafford Gorge Chalk Quarry.

These rocks are called **Sedimentary** and were formed when the land was covered by sea, and tiny pieces of natural material would fall and sink to the bottom.

We will be using this worksheet to explore the different qualities of the rocks.

<u>Soil</u>

The top layer of soil is formed by rocks and natural material breaking down and eroding by weathering. Air, water and billions of micro-organisms and minibeasts help make the soil, as well as decaying dead leaves and old animal carcasses.

Draw a picture of	the soil below.		
Fill in the blanks ι	using the words below:		
Absorbed,	rock, dead leaves a	and animals,	soft and grainy,
brow	<u>/n</u> ,	falls between	my fingers
The colour of this	soil is		
The texture of this	s soil is		
If I rub the soil bet	tween my fingers it		
This soil is made	from eroded		
When I put a few	drops of water on this soil,	the water is	·
Can you think of a	a use for soil?		

Thames River Gravel

Thousands of years with it a variety of pe	ago the Thames River flower bble and gravel.	ed through Essex. The	river brought
These gravels have paths.	been used in building and n	naking	
Draw a picture of the	e Thames River Gravel belo	W.	
runs between the sto	ones,	feels sharp and hard,	
	multicoloured (grey, brown	ı <u>, yellow</u>)	gravely,
The colour of the roo	eks is		

Can you think of a use for gravel?

The texture of the rocks is _______.

If I rub the rock it______.

When I put a few drops of water on the rocks, the water _____

Thanet Sand

This sand would have been formed when the sea was shallow.

It is made from a mineral call	led Silica, which came	from the skele	tons of sea
sponges.			
Draw a picture of the Thanet	Sand below.		
Silica,	soft and grainy,	is absorbed be	etween the grains,
feels grainy and falls between	en my fingers,	yellowy brov	<u>vn</u> ,
The colour of the rock is			
The texture of this rock is		·	
If I rub the rock, it			
This rock is made from			
When I put a few drops of wa	ater on this rock it		
Can you think of a use for sa	ınd?		

<u>Flint</u>

Within the chalk of our cliffs there are nodules of flint.

Flint is hard and can shatter into sharp pieces which were once used by stone-age man to butcher animals.

Flint nodules were formed by the infilling of sea creatures burrows.

Draw a picture of the flint below.	
hard and smooth, runs off,	
leaves chalk on our hands,	grey / white,
The colour of this rock is	
The texture of this rock is	.
If I rub the rock it	
When I put a few drops of water on the rock it	
Can you think of a use for flint?	

Chalk

Millions of years ago there would have been a sea teeming with marine life, who	ere we
are stood today.	

The smallest creatures were microscopic marine algae with protective shells called coccoliths. These coccoliths would drift to the sea floor in their billions and over time formed the chalk we see today.

Draw a picture of the chalk below.	Coccolith
	Coccoliti
coccoliths, absorbe	ed, white,
crumbly and soft,	leaves dust on our hands,
The colour of the rock is	
The texture of the rock is	·
If I rub the rock it	
This rock is made from	·
When I put a few drops of water on the	rock it is
Can you think of a use for chalk?	