Rock Detectives

There are three types of naturally occurring rock. Sedimentaru Metamorphic Igneous Natural Rocks Human-Made Sedimentary Rocks Igneous Metamorphic Obsidian Chalk Marble Brick Granite Sandstone Quartzite Concrete Coade Stone Slate Basalt Limestone

<u>Fossilisation</u>

- 1. An animal dies. It gets covered with sediments which eventually become rock.
- More layers of rock cover it. Only hard parts of the creature remain, e.g. bones, shells and teeth.
- 3. Over thousands of years, sediment might enter the mould to make a cast fossil.
- 4. Bones may change to mineral but will stay the same shape.
- 5. As erosion and weathering take place, eventually the fossil becomes exposed.

<u>Glossary</u>

Rock – made up of grains that are packed together.

Mineral – solid chemical substances that occur naturally.

Fossil – the remains or impressions of a prehistoric plant or animal embedded in rock.

Igneous – lava or magma that has turned from liquid to solid (forming a rock).

Metamorphic – an igneous of sedimentary rock that has been changed by extreme heat or pressure.

Sedimentary – a rock formed from the build-up of sediment at the bottom of rivers or oceans.

Sediment – dead animals, plants or pieces of rock that settles to the bottom of a liquid.

Magma – liquid rock inside a volcano.

Lava – liquid rock which flows out of a volcano (ranges from 700 to 1200 degrees

<u>Soil</u>

Half of soil is air and water. In soil you can find sand, small stones, bits of leaves and roots. There are also millions of micro-organisms in the soil which help break down the matter and make the soil healthy and full of life.

<u>Key Vocabulary</u>

Rock, Mineral, Fossil, Igneous, Metamorphic, Sedimentary, Sediment, Magma, Lava, weathered, hard, soft, permeable, impermeable, durable (meaning resistant to weathering).

