LEARNING OBJECTIVES 1.TYPES OF ROCK

## ROCK

A ROCK IS A NATURALLY OCCURRING MATERIAL.

MOUNTAINS, CLIFFS, HILLS, STONES AND PEBBLES ARE ALL MADE OF ROCK. A MINERAL IS A NATURALLY OCCURRING SUBSTANCE.

MINERALS

IT IS INORGANIC, WHICH MEANS IT DOES NOT COME FROM A LIVING THING.

A MINERAL HAS A DEFINITE CHEMICAL COMPOSITION, ATOMIC STRUCTURE AND KNOWN PHYSICAL CHARACTERISTICS.

MINERALS ARE MOSTLY COMPOUNDS (A SUBSTANCE THAT CONSISTS OF TWO OR MORE ELEMENTS).

ALTHOUGH ELEMENTS SUCH AS COPPER AND SILVER DO OCCUR AS MINERALS.

SOME ROCKS, E.G. GRANITES, CONSIST OF THREE OR MORE DIFFERENT MINERALS, I.E. QUARTZ,



PRECIOUS STONES, OR JEWELS, ARE ALSO MADE OF ROCK.

SAND AND SOIL ARE MADE OF TINY PIECES OF ROCK.

THERE ARE MANY DIFFERENT TYPES OF ROCK, SOME ARE HARD, SOME ARE SOFT, SMOOTH OR ROUGH.

A ROCK IS COMPOSED OF MINERALS OR FRAGMENTS OF OLDER ROCKS OR FOSSILS OR FROM A MIXTURE OF THESE.

ROCKS CAN BE SORTED INTO GROUPS BASED ON SEVERAL DIFFERENT CRITERIA. FELDSPARS AND MICAS. MOST LIMESTONES ARE COMPOSED OF ONE PREDOMINANT MINERAL, I.E. CALCITE.

AS WELL AS IN ROCKS AND THE EARTH, MINERALS CAN BE FOUND IN FOOD AND DRINK.

## ACTIVITY

START YOUR OWN ROCK COLLECTION, THEN BEGIN TO SORT THEM INTO DIFFERENT CRITERIA. (REMEMBER TO ALWAYS ASK AN ADULT BEFORE TAKING ANY ROCKS FROM A BEACH OR PUBLIC PARK)



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ROCK













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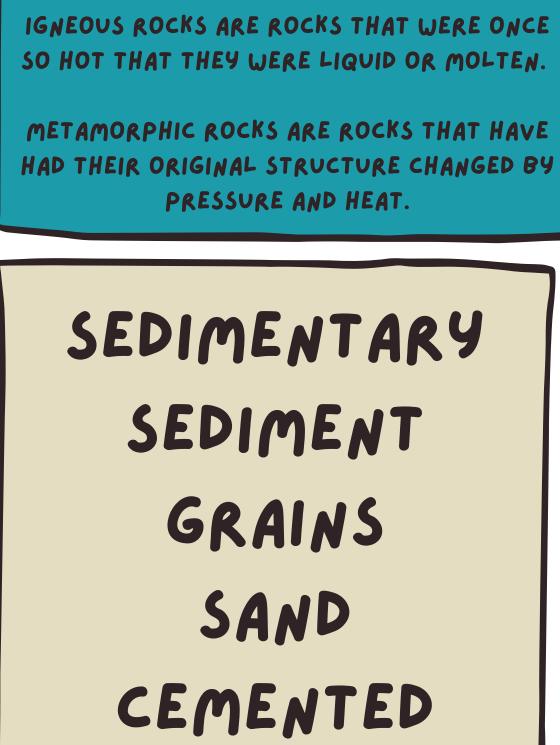
ROCK

EARTH SCIENTISTS GROUP ROCKS ACCORDING TO HOW THEY WERE FORMED.

SEDIMENTARY ROCKS ARE FORMED OF GRAINS, OF VARYING SIZES, WHICH HAVE BEEN COMPRESSED AND CEMENTED TOGETHER BY NATURAL CEMENT E.G. SILICA, CALCITE OR IRON MINERALS.

THE GRAINS OF ROCK HAVE USUALLY BEEN DEPOSITED BY WATER, ICE, OR WIND MOVEMENT.

IGNEOUS AND METAMORPHIC ROCKS ARE MADE FROM INTERLOCKING CRYSTALS. IGNEOUS IGNITE FIRE FORMED UNDER HEAT CRYSTALS



METAMORPHIC MORPH MORPH METAMORPHOSIS CATERPILLAR TO BUTTERFLY CHANGE HEAT & PRESSURE CRYSTALS



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