

# SPOTLIGHT ON SANDSTONE



## LEARNING OBJECTIVES

1. TYPE OF SEDIMENTARY ROCK
2. USES OF ROCK

## LOWER GREENSAND

120 MILLIONS YEARS AGO, IN THE CRETACEOUS PERIOD, MUCH OF THE LANDSCAPE PARTS OF KENT WERE COVERED IN WARM SHALLOW SEA'S, WITH GOLDEN SANDY BEACHES AND ISLANDS.

THE LOWER GREENSAND IS A TYPE OF SEDIMENTARY ROCK FORMED IN THESE CONDITIONS.

COMPOSED OF SAND PARTICLES THAT HAVE BEEN ERODED FROM THE LAND AND WASHED OUT TO A BEACH, WHERE THEY ARE SUBJECTED TO STRONG TIDAL CURRENTS, DEMONSTRATED IN THE STRUCTURE OF THE ROCK.

FOSSIL EVIDENCE IN THE ROCK TELLS US ABOUT THE CONDITIONS FOR WILDLIFE AT THIS TIME.

DINOSAUR FOOTPRINTS, AMMONITES, OYSTERS, SEA URCHINS, REPTILES AND ANIMAL BURROWS CAN BE SEEN FOSSILISED IN THE LOWER GREENSAND ROCK.

## QUERN STONES

BREAD IS MADE FROM FLOUR GROUND FROM WHEAT, BARLEY, RYE OR CORN.

THE GRAINS NEED TO BE GROUND INTO FLOUR, USING AN APPARATUS OR TOOL.

QUERN STONES, ARE USED TO GRIND GRAIN INTO FLOUR.

IRON AGE ROTARY QUERN STONES HAVE BEEN FOUND AT A SITE ON EAST WEAR BAY IN FOLKESTONE, THOUGHT TO BE AN IRON AGE QUERN FACTORY.

THESE STONES WERE TRADED AND HAVE BEEN FOUND BY ARCHAEOLOGISTS ACROSS EAST KENT AND ALONG THE THAMES VALLEY.

THE STONES ARE MADE FROM LOCAL LOWER GREENSAND ROCK, COLLECTED FROM COPT POINT, IN THE FOLKESTONE WARREN.

THE LOWER GREENSAND PROPERTIES ARE WELL SUITED TO GRINDING.

## GLAUCONITE

AN IRON POTASSIUM MINERAL OF GREEN COLOUR.

MADE FROM MARINE ANIMAL DEPOSITS.

A MAJOR COMPONENT OF LOWER GREENSAND.

USED AS A PIGMENT IN PAINT FOR ARTISTS CALLED 'GREEN EARTH'.

USED AS A SOURCE OF POTASSIUM IN PLANT FERTILIZERS AND TO ADJUST SOIL PH.

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EUROPEAN UNION