



## Rock properties

### Background knowledge

Materials are chosen for use on the basis of their properties. Rocks vary in their properties and are used in a variety of ways, such as in the making of buildings, bridges, statues, tools, monuments, gravestones, and ornaments.

### Science activity

This chart lists some rocks and their properties.

Rock	Properties
limestone	fairly dense; relatively easy to cut; can be shaped into blocks; some forms are white in color
slate	black in color; not permeable; formed in layers that can be split up easily
granite	dense; can be cut, carved, and shaped; is resistant to water and pollution; has a range of colors
marble	dense; good range of colors; can be carved and shaped; strong
soapstone	attractive green colors; can be cut and shaped

Draw a line linking each rock listed below to one or more of the uses on the right. Use the properties of the rocks given above to help you.



limestone  
 soapstone  
 granite  
 marble  
 slate

sculpting material  
 statues  
 pillars to support a bridge  
 monuments designed to last  
 chess set

### Science Investigation

Chalk is a type of rock. Obtain a piece of chalk and describe all of its properties. How do chalk's properties explain its main use?

