



## Rock Lab Lesson Plan KS2

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| <b>45 – 60 mins</b>  |   |
| <b>Curriculum areas covered:</b>   | i. Compare and group together different kinds of rocks based on their appearance and simple physical properties.  |
| <b>Skills:</b>   | i. Asking relevant questions and using different types of scientific enquiries to answer them.<br>ii. Making systematic and careful observations<br>iii. Recording findings using simple scientific language and diagrams<br>iv. Learn how to use an identification key chart   |
| <b>Teaching objectives:</b>  | By the end of this lesson, the children will be able to: <ul style="list-style-type: none"> <li>Evaluate the properties of rocks, using experimental techniques like hardness and porosity.</li> <li>Determine uses of common types of rocks in the world around them from a rock's properties.</li> <li>Identify at least 3 rocks using an identification chart</li> </ul> |
| <b>Key vocabulary: porous, non porous, grains, chalk, granite, obsidian, sandstone, limestone, slate, marble.</b>  |   |
| <i>Resources Samples of chalk, granite, sandstone, slate, obsidian, marble, limestone. Iron nails (one between two), water pot with pipette (one between two), hand lens (one between two), recording sheet (one each), ID sheet (one between two) and instruction sheet (one between two), pencils, worksheet with four 'Rock Fact files' for each child</i>  |   |
| <b>Activity</b><br><b>Main 35 mins</b> Children test different rock types to look for hardness, porosity, special features (fossils, grains, layers etc). Then draw their rock. This is all recorded on a worksheet, whilst working in pairs. The rocks identified using a key identification chart. Hand lenses are used to look carefully at each rock.<br><b>Plenary 10-15 mins</b> - Children group together and each have a picture of a use of rock. We then all discuss their experiment findings and from that deduce what each rock would be used for and put the pictures next to the name of rock on the board.<br>eg chalk = porous, so good for soaking up moisture on hands of gymnasts, slate = flat, so good for roof.<br>Return to complete worksheets with this information. |   |
| Differentiation  | To stretch and challenge. Option 1. Give another worksheet to allow testing two more rocks. Option 2. Lend Rockwatch mag to read.<br>To support additional educational needs. Option 1. Group work and use of learning assistants. Activity hands-on to allow all to have accessibility.  |
| Take away...   | Give teacher Rockwatch leaflet if anyone wants to join.<br>Rockwatch joining also on our website.   |