


Topic: Materials	Year 2 Age 6-7	Title: Waterproof materials
Working Scientifically Plan: Ask simple questions and recognising that they can be answered in different ways	Conceptual Knowledge Use knowledge and understanding of properties of materials to compare suitability for different uses	
Assessment Focus <ul style="list-style-type: none"> • Can children discuss/use different ways to test how waterproof materials are? • Can children compare materials on the basis of waterproofness? 		
<p>Activity <i>Today we are materials engineers.</i> Provide a collection of different types of materials. Discuss which could be the ‘best’ material – draw out that need to know best for what. Today we want to know the ‘best’ for waterproof coat/umbrella/cover for summer fair cakes etc – choose appropriate context. Pupils discuss how to compare how waterproof the different materials are, for example:</p> <ul style="list-style-type: none"> • Drip water onto the material • Pour water onto the material • Wrap up a cotton ball in the material & put into water <p>Children will plan and carry out a simple test to measure the waterproofness of different materials – groups try difference ways to answer the question. Children sit in a circle and consider one group’s investigation – was this a good test? Why? Do you agree with their results? Adult collect utterances or ask target children or those who have not worked with an adult.</p>		
<p>Adapting the activity Support: Support children to decide which test to carry out. Extension: Children independently identify several ways to test. If time, they try more than one method of testing.</p>		
<p>Key Questions</p> <ul style="list-style-type: none"> • How will you know if it is waterproof? • How much water will you use? How long will you put it in the water for? • Can you order the materials: most to least waterproof? • Do you think everyone else will find the same result? • How else could you test the material? 		
<p>Assessment Indicators</p> <p>Not yet met: Describes their idea/test but it may not help to answer the question and does not consider alternative methods.</p> <p>Meeting: Explains different tests, <i>e.g. you can find out which is waterproof by --- or ---</i></p> <p>Exceeding: Comments on the best way to find out and understands that a comparison has to be fair, <i>e.g. I need to add the same amount of water.</i></p>		