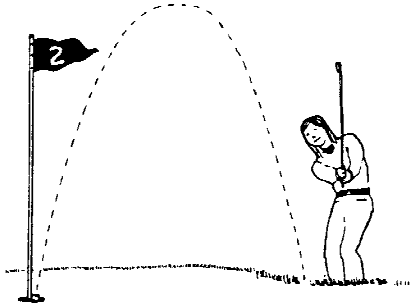
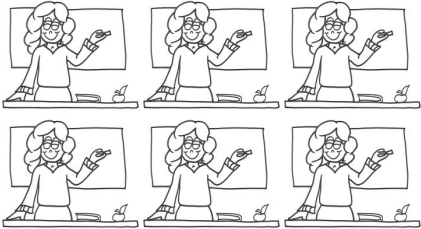

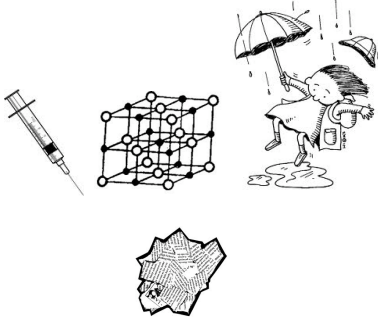


Questions to tackle in a group

1. Choose a question, and begin to solve it collaboratively in a group

<p>Golf shot</p> <p>How does the speed of the golf ball change as it flies through the air in this amazing golf shot ?</p> <p>Sketch a speed v time graph to illustrate your answer.</p>	
<p>Teachers</p> <p>About how many teachers are there in your country?</p> <p>Try to make a reasonable estimate based on facts that you already know.</p>	
<p>Which Sport?</p> <p>Which sport could this graph represent?</p>	
<p>Particles</p> <p>Which of the following arguments provides the best evidence that matter is made from particles?</p> <ul style="list-style-type: none"> • Air in a syringe can be squeezed • The crystals of a pure substance have the same shape • Water in a puddle disappears • Paper can be torn into small pieces 	

"Golf shot" and "Which sport?" are taken from *The Language of Functions and Graphs*, Shell Centre for Mathematical Education, University of Nottingham (1985). "Teachers" is taken from Swan, M; Pead, D (2008). *Professional development resources*. Bowland Maths Key Stage 3, Bowland Trust/ Department for Children, Schools and Families. Available online in the UK at: <http://www.bowlandmaths.org.uk>. "Particles" is taken from *Language and literacy in science education*, by Wellington and Osborne (Open University Press, 2001).