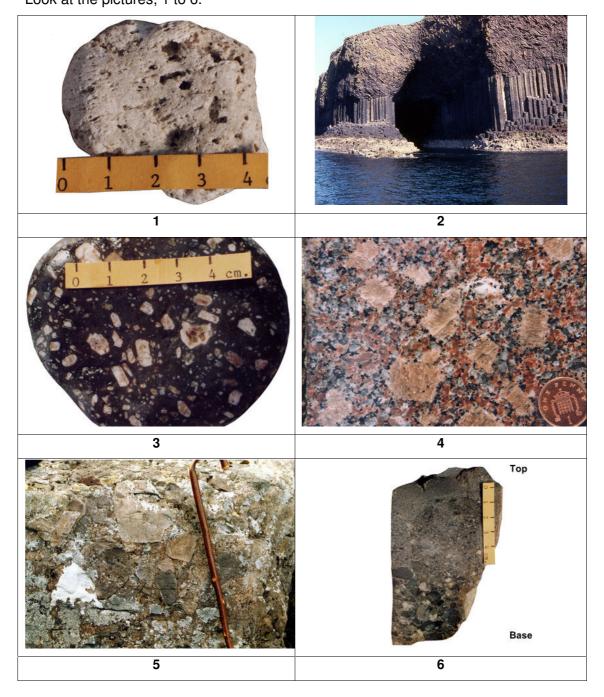
Igneous processes: matching the evidence they leave behind

Introduction

Lava from **volcanoes** solidifies to form rocks that are called **igneous** rocks. Igneous rocks can also form in other ways.

What to do
Look at the pictures, 1 to 6.



Complete the table to match each picture to the following descriptions.

- A. This rock crystallised very quickly (in hours), trapping a lot of gas in bubbles in the lava. This results in a texture like a bubbly Aero™ chocolate bar.
- B. This rock crystallised slowly below ground, where all the crystals had time to grow to a large size (perhaps taking several million years). The rock has a coarsegrained texture.
- C. The fragments in this rock were blasted out of a volcano up into the air. They landed in the sea and then became cemented together to form a hard rock.
- D. This lava was erupted quickly, to form a thick sheet. The texture of the rock itself is too fine to see the crystals. As it cooled it contracted to form columns 60 cm or so across.
- E. This rock began to crystallise from a molten magma, slowly below ground. Then, the magma, with the crystals in it, rose to the surface and erupted from a volcano.
- F. The fragments in this rock were blasted out of a volcano up into the air. They landed on the sides of the volcano and then became cemented together to form a hard rock.

Picture	Description
1	
2	
3	
4	
5	
6	

Questions

- Q 1. Which picture shows a rock that forms in a similar way to the bubbles coming out of the lemonade?
- Q 2. Which picture shows a rock that forms in a similar way to the particles settling in the coffee jar demonstration?