

Worksheet 3 -Jigging

The pot contains a crushed sample of the minerals you have been shown.

Tip the minerals carefully into the plastic tube, using the jug.

Put the tube (called a "jig") in the bucket of water and jig it up and down quickly.

Who can get the most lead ore to separate out?



The minerals settle out in the tube because some are denser than others.

They are:

- Silvery lead ore (Galena) is 7 times denser than water.
- Pink Barite is 4 times denser than water.
- Purple, or green Fluorite is $3\frac{1}{2}$ times denser than water
- White Calcite is 3 times denser than water.

When you have finished, please tip out the contents of your jig into a tray, ready for the next team.

Turn over the sheet.

Jig at Kilhope Mining Museum, Weardale



A full-sized jig in use. The jig is made of wood, with a mesh base and is worked up and down in water by a boy pulling on a long handle. Jigs like this were used at Ecton to separate the copper ore from the waste.