## Rock revision exercise using drawings of thin sections

## Look at the drawings of thin sections of rocks shown on pages 3 and 4..

Answer the following questions. Write your answers in the spaces provided.
a) For each rock give the grain size \& texture and name the rock.

| Section | Grain size | Texture | Rock name |
| :---: | :--- | :--- | :--- |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |
| 7 |  |  |  |
| 8 |  |  |  |

## b) Read the following rock description.

The rock is made of grains; it is not crystalline. It is coarse grained. The minerals in the rock are quartz, feldspar and clay minerals. Quartz and feldspar grains make up $78 \%$ and $16 \%$ respectively of the rock. The matrix is less than $7 \%$ of the rock and is composed of clay minerals. Grains are poorly sorted, varying in size from less than 0.1 mm to over 4 mm . Most of the grains are matrix supported, have a low sphericity and are angular to sub-rounded in shape.
(i) Match this rock description with one of the thin section drawings. The drawing of thin section matches the rock description
(ii) What conclusion(s) can you draw about the transport history of this rock?
$\qquad$
c) State the link or connection between the rocks shown in the following pairs of drawings of thin sections: Thin sections 1 and 2
$\qquad$

Thin sections 3 and 4

Thin sections 5 and 6

Thin sections 7 and 8

Thin section 1

0.5 mm Plane polarised light

Thin section 2

0.5 mm Plane polarised light

Thin section 3

$5 \mathrm{~mm} \quad$ Plane polarised light
Thin section 4



