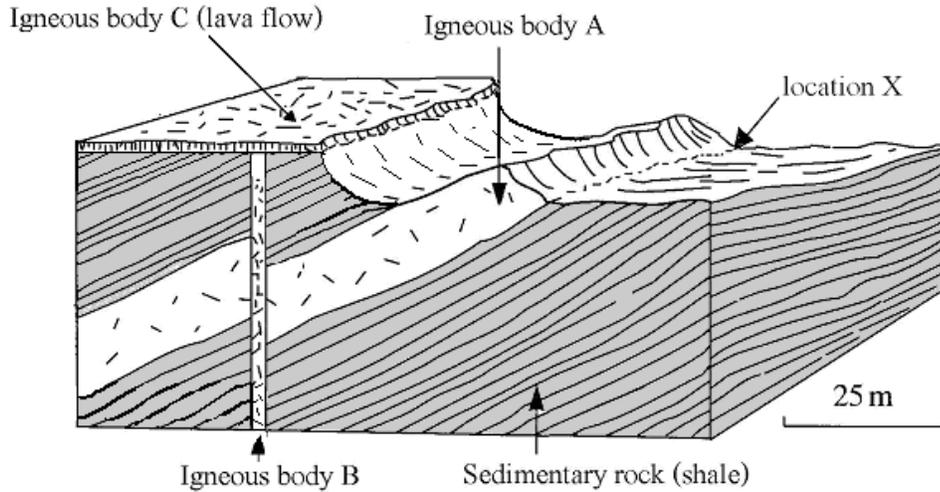


## Extension Question: Igneous Processes

**E.3. Figure 3** shows how magma rising from depth has formed three different igneous bodies (a dyke, a sill and a lava flow) when it cooled.



**Figure 3**

- (a) Igneous body **A** and **B** are both *intrusive*.  
Complete the table to identify each type of igneous body

	Type of igneous body	Reason
Igneous body <b>A</b>	•	Intrudes between rock layers
Igneous body <b>B</b>	Dyke	•

- (b) Igneous body **C** is a *lava flow* composed of a rock type called basalt.  
Explain why crystals in the lava flow are smaller than in the intrusive rocks.

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- (c) Suggest a reason why igneous body **A** forms a ridge on the surface.

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- (d) Which of the igneous bodies is the oldest? Give a reason for your answer.

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- (e) Suggest what might have happened to the shale (a type of mudstone) at location **X** when igneous body **A** intruded.

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