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| **Session 4:**  | **Modeling the lithosphere** |

## Assessed criteria

Criterion B: Designing an Investigation

The 4 methods you need to write are quite short, so we will focus on how you research and present relevant information about the lithosphere that you need to know to support your conclusions with scientific reasoning.

Criterion C: Processing and Evaluating

Criterion E: AIE

**Research Question**

“Is it possible to model movements of the lithosphere in the lab?”

**Background Information**

We use experiments in the lab to “model” real life situations because they are quicker, easier, repeatable and cheaper than experimenting in the real-life situation. In the case of the lithosphere, it is also inaccessible and many changes occur over millions of years.

[Add background information about the lithosphere]

**Objective**

Perform experiments in the lab which model how the lithosphere may move due to energy released from the Earth´s core; write a hypothesis, method, observations and conclusions for each.

**Materials**

[What equipment did you use?]

**Method**

**Experiment 1.**

**Experiment 2.**

**Experiment 3.**

**Experiment 4.**

**Results**

 [Write your observations here]

**Experiment 1.**

**Experiment 2.**

**Experiment 3.**

**Experiment 4.**

**Conclusion**

[Complete this section – What can you conclude from each of the 4 experiments? Can you explain your observations with science from your background information? Is it possible to model the lithosphere in the lab? What are the advantages? What are the limitations?]

**Evaluation**

[Complete this section – What improvements could you make to 2 of the experiments? Can you think of a better way to model the lithosphere in the lab? ]

**References**

*[Add your references from the background information and conclusion here]*