Lab Sheet: Moving a Load

Materials	 A ruler or metre stick (the rule should be at least 30 centimetres (cm) long) Stack of books (10-15 depending on their size. The stack should be up to 12 inches or 30 centimetres tall) A heavy book or another object that can be used as a load String (enough to wrap around and lift your load)
Prediction What do you think will happen?	Use pictures and/or words to record your prediction(s).

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Steps	Step 1: First, stack the books in a pile.
	Step 2: Then, tie the string around the heavy book (load) and try to lift it on top of the stack of books. Record your observations.
	Step 3: After that, create a ramp by resting one end of the ruler on top of the book stack and the other end on a table.
	Step 4: Finally, place the heavy book (load) at the bottom of the ramp. Using one hand, move it up the ramp. Record your observations.
Observations	Record what you notice using pictures, numbers, and/or words.
Consider the following questions: · What happened? · What do you notice? · Do you think you are you using a lot of effort or a little effort?	

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Think

Consider the following questions:

- What did you predict would happen?
 Were your predictions correct?
- Which one required less effort?
 Was it easier to move the load using a string or a ramp?

Explain your thinking.

Record your ideas using pictures, numbers, and/ or words.