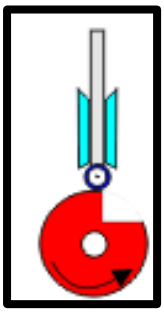
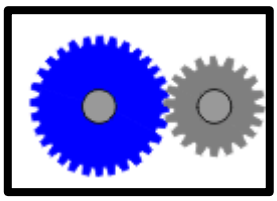
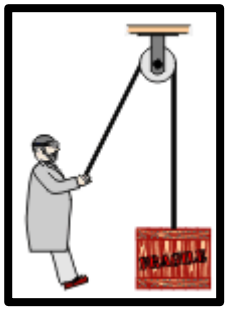
Post Assessment Quiz – How Does the Rainforest Move?

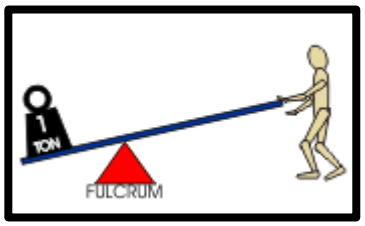
Technical

1. Draw lines to match the **mechanism** example to the correct name.







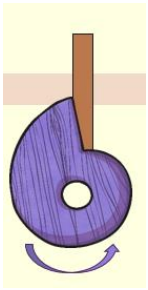


Lever	Gears	Pulley	Cams

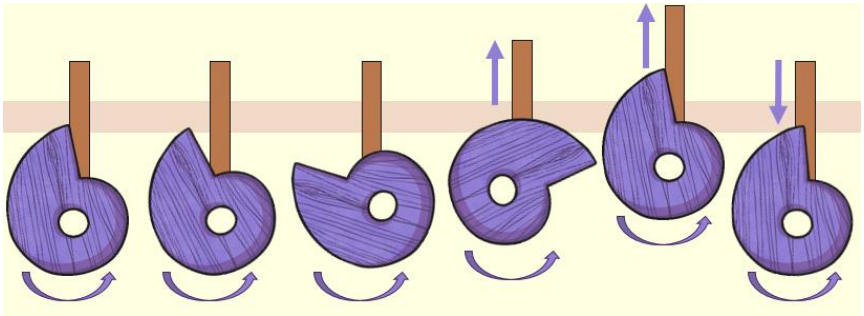
Components

2. Draw arrows to label the diagram of the **snail cam** below:

snail cam		slider
rotation		Removed section



3. Now use the words in the boxes to help you explain how a **snail cam** works:



removed section

follower

rotate

snail cam

up and down

slider

_____

_____

_____

_____

Vocabulary

4. Tick the option which best defines the phrase **'functional properties'**:

☐ Properties which are thought to be useful and practical rather than attractive.

☐ Knowing how to make things move.

☐ Properties which are thought to be attractive rather than useful and practical.

5. Explain the difference between **functional properties** and **aesthetic qualities**:

_____

_____

_____

6. Draw lines to match the words to the correct definitions:

Automaton	An object spinning on an axis on its own.
Market research	Gathering information about consumers' needs and requirements.
Rotary	A mechanism controlled to follow a set of movements

Problem Solving

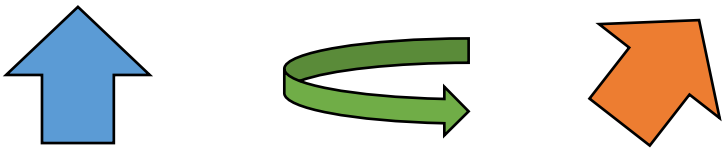
7. Why is it important to <u>accurately measure</u> the parts of a **mechanical system** when creating them?

_____

_____

Functionality

8. What direction do the penguin and fish move when the handle on the automation is turned? (Circle one arrow)



9. Miss Worrell's **design brief** was to design an automation where the objects would move up and down. What change would you make to the design (below) to achieve this?