

Simple machines

The secret behind how lots of things work are basic tools or devices that scientists call 'simple machines'. Here's an imaginary machine that combines several of them in one. Can you match the names of each machine to the correct part?

1.....
...is one of the simplest machines of all. It's often used to transport things around.

2.....
...is a kind of wheel with teeth. When this big cog turns, the small cog turns around in the opposite direction.

3.....
...is a wheel with rope or cable running over it.

4.....
...is just a sloped surface. Moving something up an inclined plane is easier than lifting it straight up.

5.....
...is a triangular object that can split things apart (like a knife) or stop things moving (like a doorstop).

6.....
...is an inclined plane in a spiral shape. Turning it one way makes it go forward...

7.....
...is a rod that tilts or turns at a fixed point, called a fulcrum, to move something.

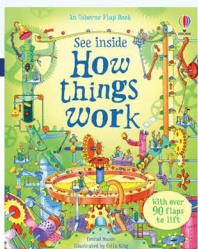
Teeth

When you pull on one end...

Rod Fulcrum

A screw A wheel An inclined plane A wedge A lever A pulley A cog

Answers: 1. A wheel 2. A cog 3. A pulley 4. An inclined plane 5. A wedge 6. A screw 7. A lever



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