

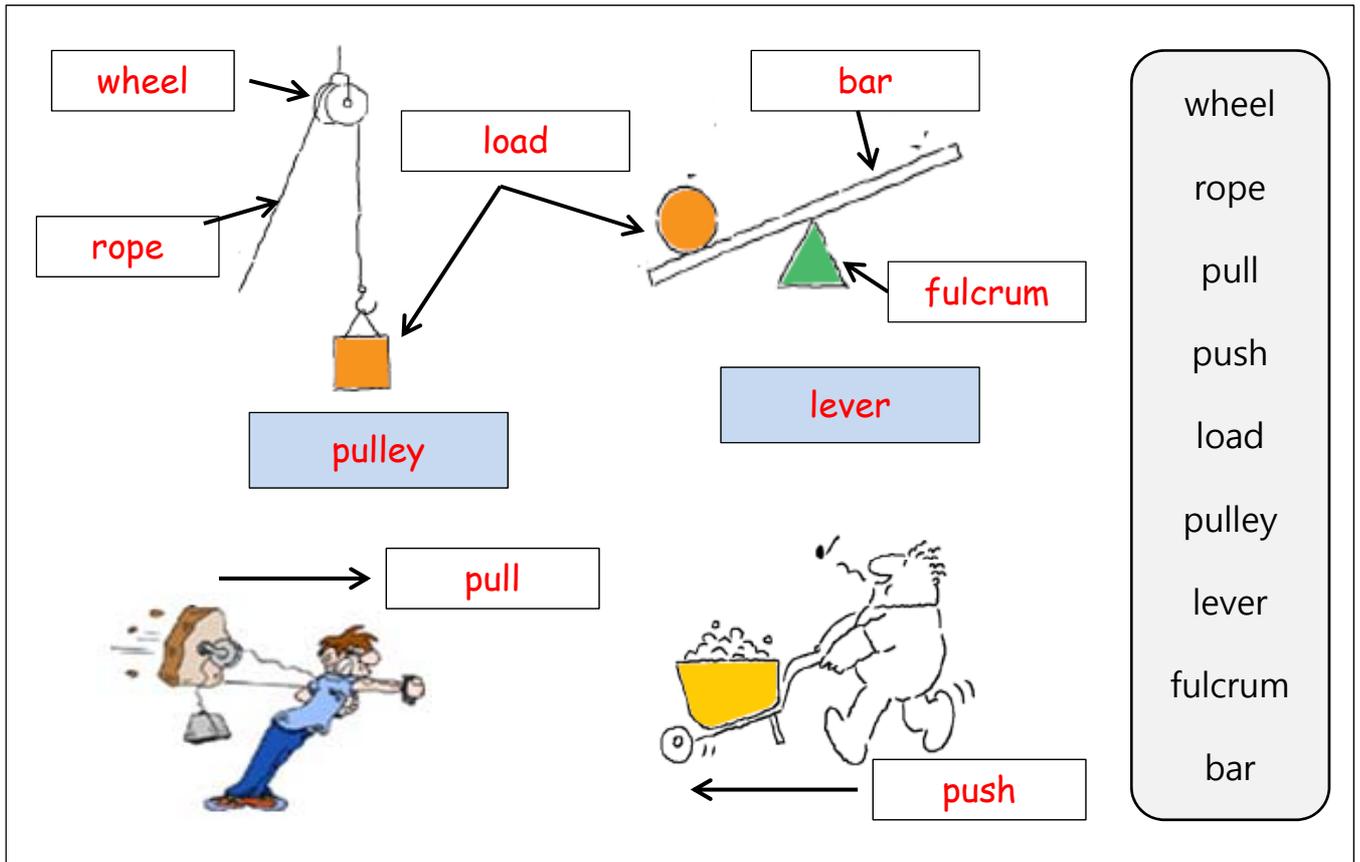
Alpha Level 4

Making Work Easy

Written by Rod Rees



A Label the each part of simple machines



B Circle the word with the same meaning as the underlined word.

- How do people move them?
 - a) carry
 - b) load
 - c) leave
 - d) act
- People use bottle openers to remove bottle tops.
 - a) attach
 - b) lift off
 - c) hire
 - d) install
- Scissors are just two levers joined in the middle.
 - a) separated
 - b) divided
 - c) attached
 - d) enrolled
- People use cranes to move heavy loads on and off ships.
 - a) light
 - b) gloomy
 - c) little
 - d) weighty
- Rock climbers also wear safety harnesses.
 - a) take off
 - b) put on
 - c) hop in
 - d) get in

C Complete the sentences using words in the box.

Word Box

How, made, from, in, to, on and off

1. A pulley is made **up of** a wheel and a rope.
2. The safety harness is attached to one end of a rope.
3. Scissors are just two levers joined in **the middle**.
4. People use cranes to move heavy loads on and off ships.
5. It can move the load up and down or from side **to** side.
6. How **many** pulleys can you see?

D Complete the sentence using the sentence pattern in the box.

Questions with **How** ~

How do you get a flag to the top of a flagpole?

⇒ I **use a pulley** to make the flag go up.

1. How do people move up and down the outside of tall buildings?
⇒ People wear safety harnesses that is attached to a rope.
2. How do people get a top off a bottle?
⇒ People use bottle openers to remove bottle tops.
3. How do people move heavy boxes or furniture ?
⇒ People use hand carts to move heavy boxes or furniture.
4. How do people move things around in a garden?
⇒ People use wheelbarrows to move things around in a garden.

A Answer the following questions.



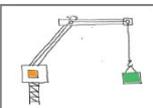
- 1) What is the book about?
 - a) Pulleys and levers make work easier.
 - b) A pulley is made up of a wheel and a rope.
 - c) A lever is a bar or rod.

- 2) What machines help to make moving heavy things easier? (pg. 6)
 - a) Pulleys
 - b) Levers
 - c) Scales

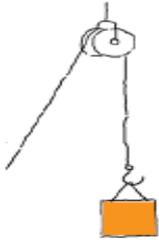
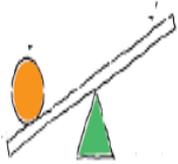
- 3) What is **NOT** true about a pulley? (pp. 5-11)
 - a) A pulley is made up of a wheel and a rope.
 - b) A pulley can help people move load up, down or sideways.
 - c) A pulley can be pushed down or pulled up to help lift things.

- 4) What is **NOT** true about a lever? (pp. 12-18)
 - a) A lever is a bar of rod.
 - b) A lever is a simple lifting machine.
 - c) A bottle opener is a lever.

B Match the picture and the sentence.

	A pulley	<input checked="" type="checkbox"/>	are two levers joined in the middle.
	A lever	<input checked="" type="checkbox"/>	can lift something heavy
	Scissors	<input checked="" type="checkbox"/>	has pulleys and levers
	A hand cart	<input checked="" type="checkbox"/>	is an example of a lever
	A crane	<input checked="" type="checkbox"/>	makes lifting a lid easy

C Complete the chart for the story.

	What are they?	How do they work?	Examples
<p><u>pulley</u></p> 	<p>A pulley is a simple lifting machine.</p> <p>A pulley is made of a <u>wheel</u>, a <u>rope</u> or a <u>chain</u>.</p>	<p>If you want to raise the object... Attach one end of the rope to the object.</p> <p>Pull the other end of the rope.</p>	 sail  flagpole  safety harness
<p><u>lever</u></p> 	<p>A lever can make moving something easier. A lever has three parts. The force arm, the load arm and the <u>fulcrum</u>.</p>	<p>A lever can be pushed down or pulled up to help lift and move things</p>	 sea saw  bottle opener  scissors  wheel barrow
<p>pulley / lever</p>	<p>attach / rope / wheel / chain / pull / pulled / pushed</p>		

D Write and Speak.

We use levers and pulleys everyday.

A bottle opener is an example of a pulley.

A wheel barrow is an example of a lever.

A flagpole is an example of a pulley.

A sea saw is an example of a lever.

Answers can vary