

**Choose the correct option**

1. Which of the following is not an example of the simple machine:  
 A) juicer                      B) stapler                      C) nail clipper                      D) scissors
2. A light bulb is an example of a:  
 A) lever                      B) screw                      C) wedge                      D) wheel and axle
3. Gears moving in a circular motion are a type of:  
 A) lever                      B) screw                      C) wedge                      D) wheel and axle
4. Toilet paper on a roller is an example of a:  
 A) pulley                      B) wheel and axle                      C) inclined plane                      D) lever
5. The metal cap of a bottle can be opened by using a bottle opener. In this case the bottle opener works as a:  
 A) screw                      B) wedge                      C) lever                      D) pulley
6. A flagpole is an example of a:  
 A) lever                      B) pulley                      C) wheel and axle                      D) all of them

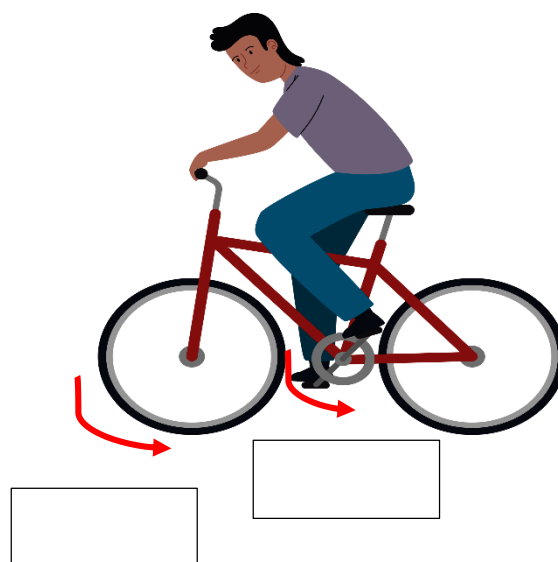
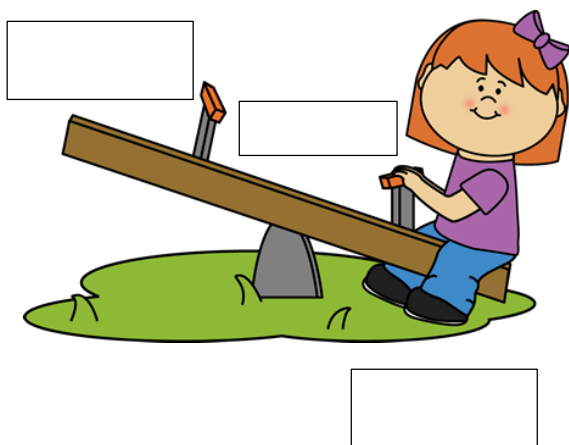
**Fill in the blanks**

- i. A device or tool used to make the work easier and faster is called \_\_\_\_\_.
- ii. A \_\_\_\_\_ machine has few or no moving parts.
- iii. A \_\_\_\_\_ machine is made up of two or more simple machines combined together.
- iv. A simple machine is made up of a bar or rod, which rests and turns on a fixed point is called a \_\_\_\_\_.
- v. A simple machine is used to cut or split things apart is called a \_\_\_\_\_.
- vi. A simple machine that is used to fasten or hold materials together is called a \_\_\_\_\_.
- vii. A simple machine with a slanting surface used to move heavy loads up or down is called an \_\_\_\_\_.
- viii. A simple machine consisting of a rope or string, wound around a grooved wheel is called a \_\_\_\_\_.
- ix. The rod that goes through the wheel and helps the wheel to move is called an \_\_\_\_\_.

**Match the column A with column B:**

Column A	Column B
Two inclined plane joined back to back, used to cut or split things apart	Inclined plane
A rigid bar or rod that rests and moves on a support and is used to move a heavy load easily	pulley
a rope or string wound around a grooved wheel, used to move objects up, down, or across	screw
a slanting surface used for moving objects from lower to higher or higher to lower surfaces easily	wedge
an inclined plane wrapped around a cylindrical pole that is used to fasten, or hold things together	lever

**Label the diagram.**

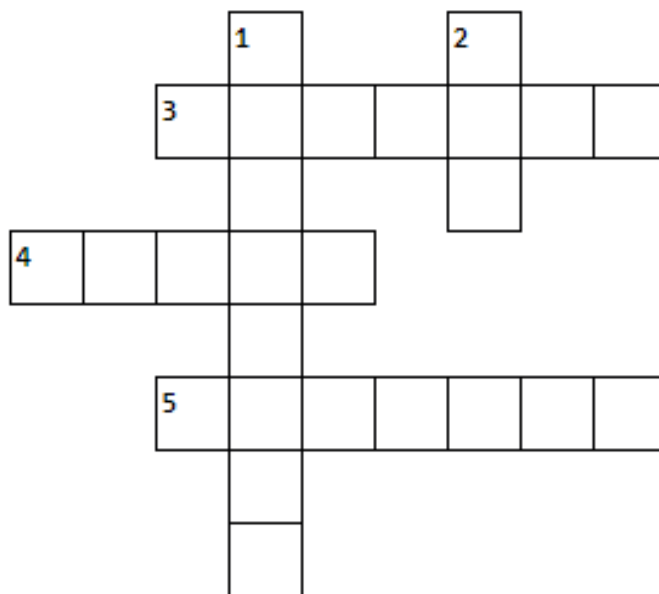


**Find and circle the names of the following words in the square below.**

Distance	Drill	Flagpole	Force	Fork	Friction
Gravity	Inclined plane	Lever	Pull	Pulley	Push
Ramp	Screw	See-saw	Speed	Wedge	Windmill
Wheel and axle					

K	I	G	W	H	E	E	L	A	N	D	A	X	L	E
Q	P	R	Q	L	Y	I	F	L	A	G	P	O	L	E
V	F	P	U	S	H	B	I	P	H	B	W	Y	Q	P
T	B	Z	T	P	F	C	N	J	F	R	C	U	J	U
P	S	E	U	F	O	R	C	E	R	R	B	R	G	L
W	G	H	H	B	R	G	L	Z	I	P	I	D	R	L
I	Z	F	C	W	K	S	I	P	C	E	X	D	A	E
N	Y	M	A	G	H	M	N	G	T	W	P	R	V	Y
D	I	S	T	A	N	C	E	J	I	N	U	I	I	F
M	I	B	V	V	W	G	D	S	O	L	L	L	T	B
I	S	J	J	R	A	M	P	C	N	E	L	L	Y	Z
L	P	L	C	Y	D	W	L	R	T	V	U	W	L	O
L	E	P	H	P	S	S	A	E	W	E	D	G	E	P
V	E	N	Z	J	T	K	N	W	P	R	N	I	Y	K
B	D	N	S	J	H	S	E	E	S	A	W	X	Q	S

**Crosswords**



**Across**

- 3. Natural force
- 4. Push or pull
- 5. A compound machine

**Down**

- 1. Slows down things
- 2. Number of simple machines

**Jumbled Words**


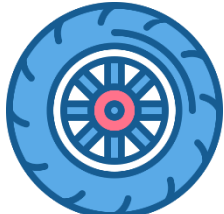
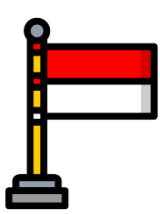


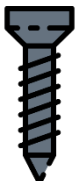

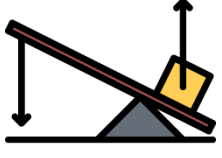

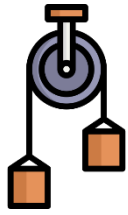
- |   |   |
|---|---|
| i. Focre _____<br>iii. Notiom _____<br>v. Vitgray _____<br>vii. Ricftion _____<br>ix. Chiname _____ | ii. Reelv _____<br>iv. Cewrs _____<br>vi. Earsg _____<br>viii. Gewed _____<br>x. Yellup _____ |
|---|---|

**Write “T” for the true and “F” for the false statement.**

- i. Gears are a type of lever.
- ii. A pulley is a compound machine.
- iii. Lever help to raise or lower a heavy load.
- iv. Rubbing hands is an example of lever
- v. Gravity pulls everything towards the center of the earth.


**Drag and Drop**

Look at the pictures and write their names in the relevant column.

				
<b>Drill</b>	<b>Wheel and axle</b>	<b>Flagpole</b>	<b>Inclined plane</b>	<b>Spade</b>
				
<b>Screw</b>	<b>Bicycle</b>	<b>Lever</b>	<b>Playground slide</b>	<b>Pulley</b>

**Gadget**

**Machines**

Drill

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Bicycle

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Playground slide

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Spade

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Flagpole

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**Comprehension:**

A force is a push or pull that can make things move, stop, or change direction. Imagine kicking a soccer ball. Your foot applies a force that makes the ball move forward. If you push a toy car across the floor, your hands exert a force on it. The car starts moving because of this force. Forces can also stop objects from moving. If you kick a soccer ball and then stop, the ball eventually stops too because no force is pushing it anymore.



1. What is a force?

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2. Give an example of using a force to make something move.

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3. Can forces stop objects from moving?

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**Short Question Answers.**

1. If an object is acting as a lever, what is the force applied to the object called?

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2. What is the point where a lever moves called?

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3. How is a simple machine different from a compound machine?

Simple Machine	Compound Machine

4. Draw a lever and label all three parts of it.

**5. Where do you see the use of pulleys? Give at least three examples from your daily life.**

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**6. How do wheels and axles make our work easier?**

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**7. How can you say that inclined planes are machines? Give at least three examples from your daily life to support your answer.**

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8. What are some advantages and disadvantages of friction? Explain with reasoning.

Advantages	Disadvantages

9. Read the following situations carefully and decide which simple machine should be used to solve these problems.

**Situation 1**

Ali lives on the fourth floor of an apartment which does not have a lift. He is supposed to carry bucket full of water to his apartment. Suggest which simple machine is best to help in this situation. Explain how that machine would be used.

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**Situation 2**

A person need to load a heavy bag of rice onto a truck. Suggest which simple machine is best to help in this situation. Explain how this machine would be used.

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**Situation 3**

A man needs to move a large, heavy stone from the road to avoid an accident. Suggest which simple machine would help best in this situation. Explain how this machine would be used.

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**Fun page**

Find 13 words from unit heat in the grid below.

Here are the first letters of the words you are looking for:

B, C, D, E, F, F, H, L, M, P, T, T, T

M	I	G	U	S	T	A	D	E	S	T	U	D
F	A	H	R	E	N	H	E	I	T	I	O	E
S	P	E	A	N	O	L	G	P	E	R	O	N
O	H	A	B	L	P	A	R	T	I	C	L	E
M	U	T	C	H	O	X	E	Z	T	F	U	V
T	H	E	R	M	O	M	E	T	E	R	N	A
E	M	E	M	A	N	E	Q	H	U	E	E	P
S	P	G	A	S	D	L	Y	E	I	E	P	O
L	A	B	O	R	A	T	O	R	Y	Z	E	R
K	A	O	Y	A	Y	R	P	M	T	I	V	A
W	B	I	X	D	K	P	S	A	O	N	I	T
C	E	L	C	I	U	S	N	L	O	G	J	E
F	J	I	Q	O	T	R	A	N	S	F	E	R
K	I	N	E	T	I	C	H	B	G	N	L	C
R	S	G	U	L	C	L	O	N	I	C	A	L