

NATURAL SCIENCE TEST UNIT 6: MACHINES

Date: _____

Name: _____

Number: _____ Class: 4º _____



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1 Label the photos with the words in the box.

pulley screw inclined-plane wedge wheel and axel



inclined plane



2 Use the words from activity 1 to complete the sentences.

- a** A _____ can cut or hold objects in place.
- b** A _____ helps transport objects faster.
- c** A _____ lifts and lowers objects.
- d** A _____ joins two objects together.
- e** An _____ makes it easier to move objects to different levels.

3 Tick (✓) the simple machines.

- a** screw ☒
- b** tennis racquet ☐
- c** bicycle ☐
- d** door handle ☐
- e** scissors ☐

4 Match to make true sentences.

A complex machine consists of

Complex machines use

Mechanical machines make

Thermal machines produce

Information processing machines make

• or remove heat.

• calculations or transform information.

• simple machines working together.

• different sources of energy.

• objects move.

5 Write the energy sources the machines use.

water the Sun oil



6 Complete the sentences with the words in the box. There are two extra words.

energy power electrical force heat information pollution Sun wind

a Many complex machines require _____ from a source other than a person.

b Mechanical machines apply _____ to make another object move.

c Thermal machines can produce or remove _____.

d _____ processing machines can make large calculations.

e Energy from coal or oil causes _____.

f Water can be used to generate _____ energy.

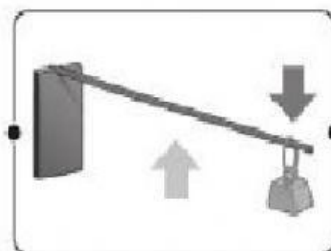
g Solar panels are used to obtain energy from the _____.



Match the information on levers to the pictures. Then match the pictures to the photos.

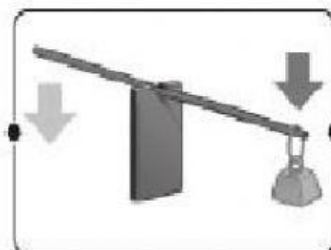
a

The fulcrum is between the effort and the load.



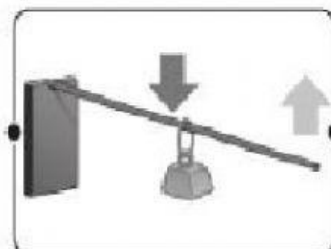
b

The effort is between the fulcrum and the load.



c

The load is between the effort and the fulcrum.



Classify the information on levers (a, b and c) from activity 2.

1 class 1 lever

☐

2 class 2 lever

☐

3 class 3 lever

☐

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