**NATURAL SCIENCE TEST UNIT 6: MACHINES**

Date: _____

Name: _____

Number: _____ Class: 4º _____

**1** Label the photos with the words in the box.

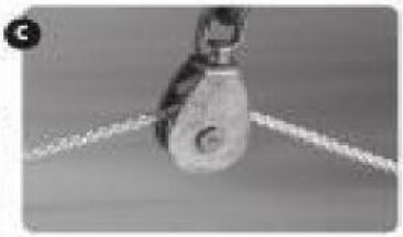
pulley screw ~~inclined plane~~ wedge wheel and axel

a 

inclined plane

b 

_____

c 

_____

d 

_____

e 

_____

**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 | • or remove heat. |
| Complex machines use | • calculations or transform information. |
| Mechanical machines make | • simple machines working together. |
| Thermal machines produce | • different sources of energy. |
| Information processing machines make | • objects move. |

**5** Write the energy sources the machines use.

water the Sun oil

a 

b 

c 

_____ _____ _____

**6** I 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.

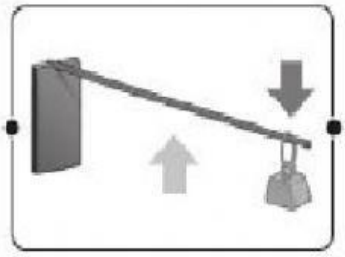
e Energy from coal or oil causes _____.

f Water can be used to generate _____ energy.

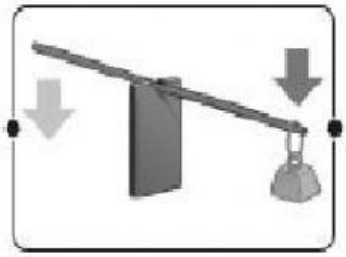
g Solar panels are used to obtain energy from the _____.

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

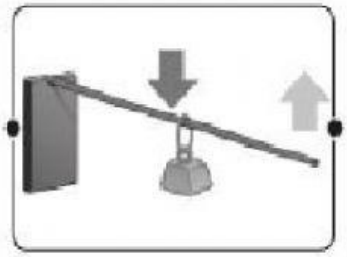
**a** The fulcrum is between the effort and the load.



**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 ☐