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## (8) STUDENT HANDOUTS

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- Go to our website:
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- Click on item CC4510 - Simple Machines
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NAME:


1. Fill in each blank with a word from the list. All words will be used more than once.


2. Look up the word PIVOT in a dictionary. Write down its definition below. The dictionary definition of pivot is:
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The lever was probably the first simple machine used by humans many thousands of years ago. The first person to whack something with a club was using a lever.

The picture shows the two parts of every lever. For every lever, a board or rod pivots on a point called a fulcrum. The force you apply is called the effort force. The lever changes the direction and amount of force and applies it to a load. The force the lever applies is called the resistance force. The distance you have to push or pull the lever is called the effort distance. The distance the load moves is called the resistance distance.
For the oars shown above, the pivot at the edge of the boat (the oarlock) is t fulcrum. The effort force is applied fot oar handle. As the handle move The dictionary definion of pivotis.



(44)

## Comprehension Quiz <br> $\bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet$.

Part A Circle the word

1) When a force causes something to move, work is done.

True False
2) Work is power.

True False
3) A candle is a simple machine

True False
4) A lever pivots on its fulcrum

True False
5) A doorknob is a wheel and axle

True False
6) A wedge is a kind of lever

True False
7) We don't have to do as much work when we use a simple machine.

## Part B

Put a check mark $(\checkmark)$ next to the answer that is most correct.

1. Which two things do we need to know to find how much work is done?

A $\begin{array}{ll}\text { A time and distance } \\ \text { B } & \text { distance and forc }\end{array}$
$\bigcirc$ C force and energy
2. Which of these simple machines usually doesn't move when it is being used?

O $\mathbf{a}$ lever
$\bigcirc$ C inclined plane
○ D wheel and axle
3. Which of these is a simple machine?

A match
© B pencil
〇 $\begin{aligned} & \text { c watch } \\ & \text { D wedge }\end{aligned}$
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Crossword Puzzle!


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## Pulleys and Wheel and Axles


$\qquad$

## Inclined Planes, Wedges, and Screws

: 1. Circle the word True if the statement is true. Circle the word False if : it is false.
a) A wedge is like two inclined planes put together.

## True

## False

b) A spiral staircase is like a very large lever.

True
False
c) Wedges and inclined planes can be seen as types of screws.

True
d) Pushing a wedge through something changes a downward force into two sideways forces

True
False
e) The grooves on a screw are called needles

True
False


## ANSWER <br> 

b) IP
(b) Less distance
c) S
d) $W$
e) IP

c) Less effort

(31)
c) $D$
(32)

Two wedges and two levers.

33
c) wedge
(34)

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[^0]:    © CLASSROOM COMPLETE $\xi_{\text {PRESS }}$

