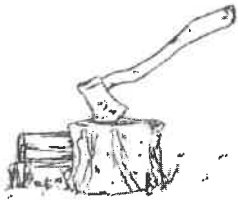


Simple Machines

The six types of simple machines are:

- inclined plane
- wedge
- screw
- lever
- pulley
- wheel and axle

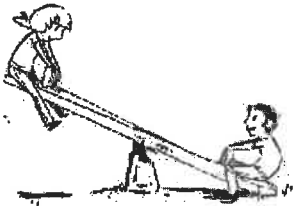
1.



An ax is used to chop wood. The metal part chops through the wood, pushing it apart into two smaller sections.

Which simple machine is found on the head of this ax? _____

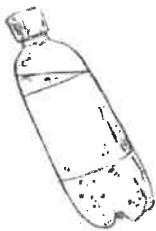
2.



The center of this seesaw is used to balance the board with the seats. The children can easily move up and down without much force.

The seesaw is an example of which simple machine? _____

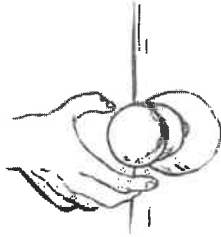
3.



The cap on this water bottle has a spiral shape. When you place it on the bottle and twist, the cap pulls itself toward the bottle.

The bottle cap is an example of which simple machine? _____

4.



When you turn the large knob on a door, a rod on the inside releases the a latch that holds the door closed. It would be difficult to turn the rod, if the knob wasn't attached to it.

The door knob and rod make up which simple machine? _____

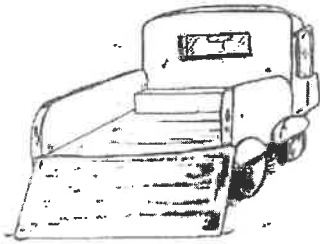
5.



A wheel with a rope is used to hoist a flag up to the top of a tall flagpole. This simple machine can also be used to help lift heavy objects with less force.

The wheel and rope make up which simple machine? _____

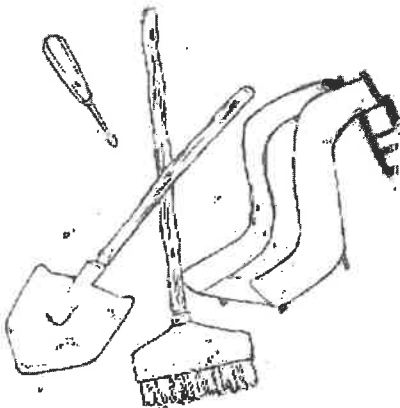
6.



A ramp is used for loading this truck. A mover can pull a cart with a heavy object up the ramp. This is much easier than lifting heavy objects into the truck.

Which simple machine is on the back of this truck? _____

7.



What types of simple machines do you see in the picture?

The slide is _____.

The shovel is _____.

The broom is _____.

The screwdriver is _____.

Simple Machines

There are six basic types of simple machines: inclined plane, wedge, screw, wheel and axle, lever, and pulley.

1. What is the man doing with the crow bar? Which type of simple machine is he using?



2. Why might this woman be drilling a hole? Which type of simple machine will she probably insert in the hole when she's done drilling?



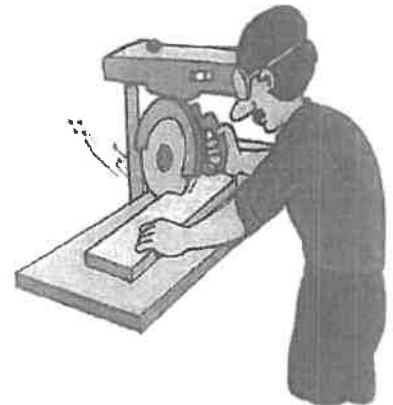
3. What is this man doing? What type of simple machine is the ladder that he is standing on?



4. What might the woman doing with the cord, wheel and hook?
Which basic simple machine is she using?



5. This man is using a power saw. What do you think he is making?
The saw blade and the rod it is attached to make up which type
of simple machine?



6. What is this man breaking apart? The hammer in his right hand is a
lever. What type of simple machine is the chisel in his left hand?



7. The man is using a vise. What does a vise do? How does
the man operate it? Which type of simple machine is used to
make the vise open and close?



Simple Machine Questions

1. A broom is a lever. Where is the fulcrum? Explain.



2. An electric fan is made up of several simple machines. Tell where you would find an inclined plane on a fan. Also, tell where you would find a wheel and axle.

3. Explain how the shoelaces on your shoes are similar to pulleys.

4. The floor of a bathtub is an inclined plane. Explain.
