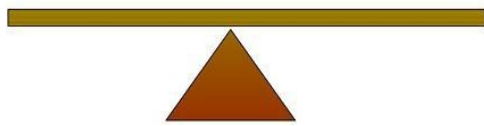
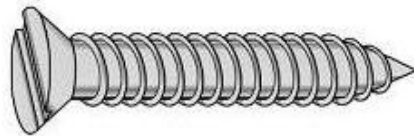


SIMPLE MACHINES PICTURE ACTIVITY CARDS



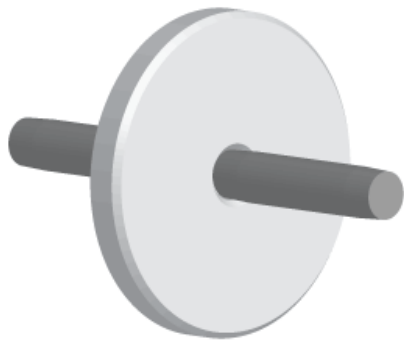
LEVER



SCREW



INCLINED PLANE



WHEEL & AXLE



WEDGE



PULLEY

TheTeachersDesk.info

SIMPLE MACHINES

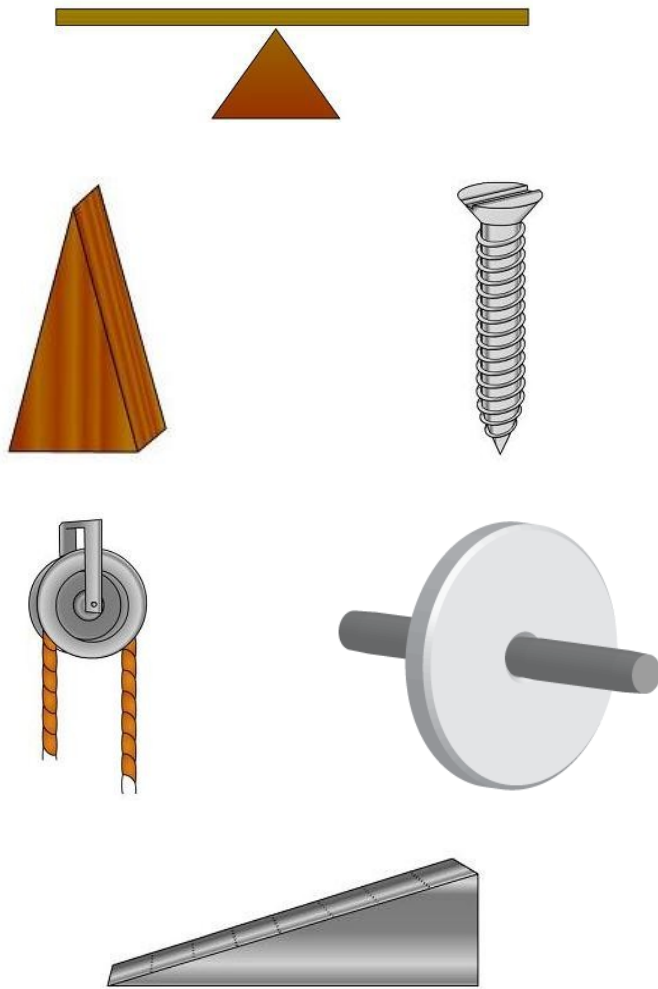
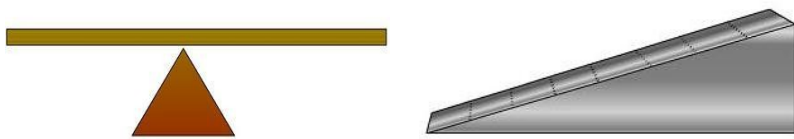


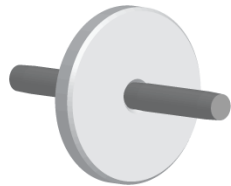
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lever

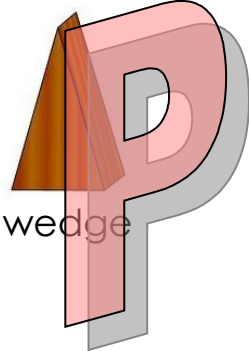
inclined plane



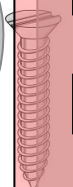
wheel & axle



pulley



wedge



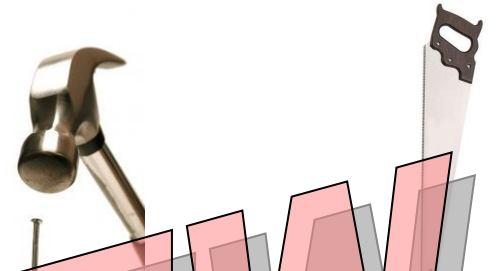
screw

PREVIEW

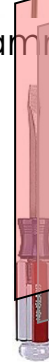
SIMPLE MACHINES

Simple machines are tools that help us do work. Simple machines have few or no moving parts.

1



hammer



screwdriver



saw



pliers

People use many tools to help them with their work. You could not drive a nail into a piece of wood using only your hand, so you would use a hammer. A hammer is a tool. All the tools below are kinds of machines. There are many different kinds of machines.

2

VOCABULARY

compound machine: a machine made of two or more simple machines

force: an action that changes the motion of something; a push or pull needed to make something move

fixed pulley: a pulley that stays in one place when it is being used

fulcrum: the support on which a lever turns

gear: a special kind of wheel and axle – a wheel with teeth, or cogs

inclined plane: a slanted surface that makes it easier to move an object to a higher or lower place

lever: simple machines used to lift or move things

load: the object to be moved

machine: something that helps people do work

moveable pulley: a pulley that moves as a load is moved

pulley: a wheel with a rope around it, used to move objects to places that are hard to reach

screw: an inclined plane wrapped around a post; used to fasten things together

simple machine: a machine with few or no moving parts

wedge: a simple machine formed by two inclined planes used to push two objects apart

wheel and axle: a simple machine that is made of a wheel that turns on a center post

work: when a force is used to move something

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VOCABULARY QUIZ 1

1. _____ force

2. _____ load

3. _____ machine

4. _____ simple machine

5. _____ work

6. _____ compound machine

A. the object to be moved

B. something that helps people do work

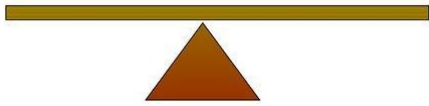
C. a machine made of two or more simple machines

D. when a force is used to move something

E. an action that changes the motion of something; a push or pull needed to make something move

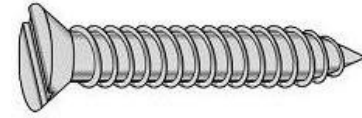
F. a machine with few or no moving parts

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lever lever lever

PREVIEW



screw screw



wedge wedge

PREVIEW



pulley pulley



inclined plane

inclined plane

PREVIEW



wheel & axle

wheel & axle

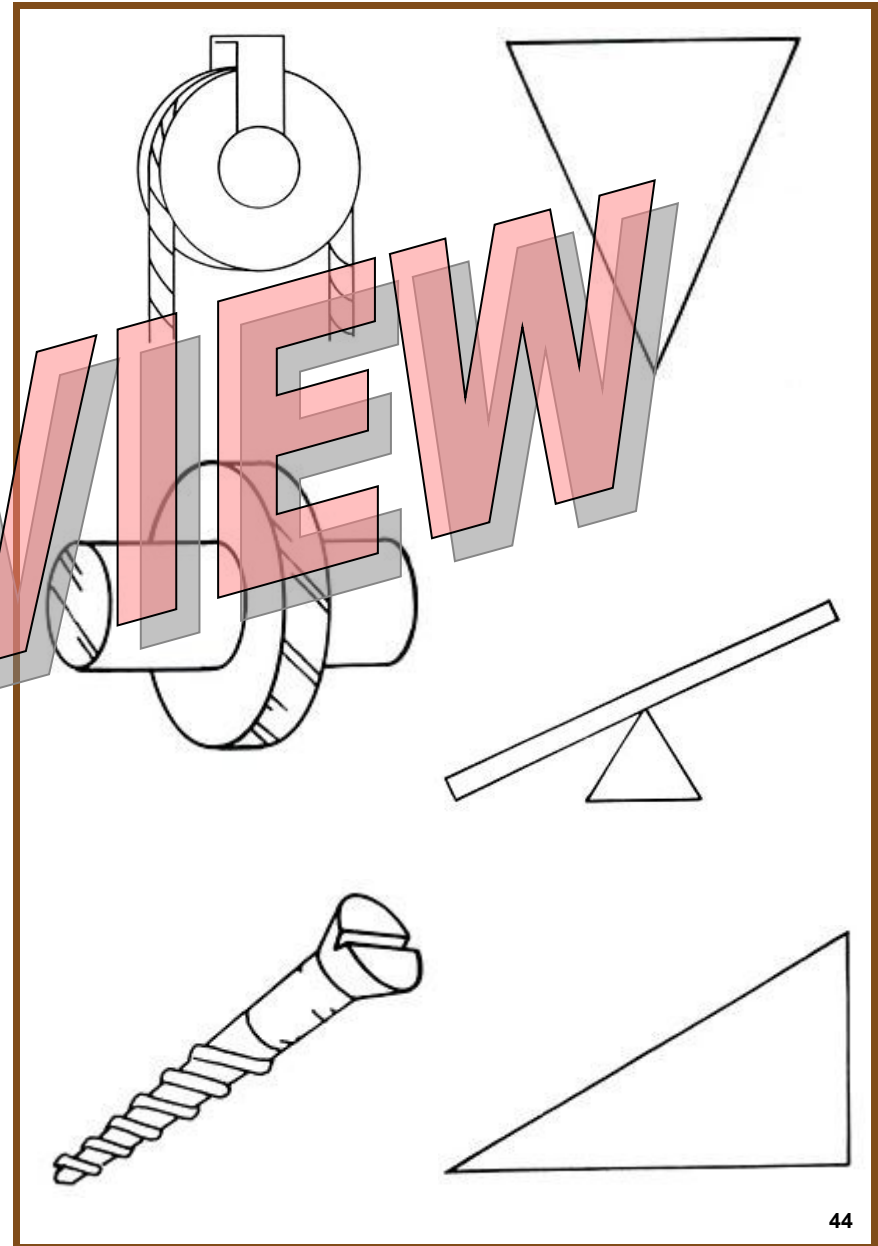
PREVIEW

SIMPLE MACHINES

PROJECTS

- Make a vocabulary book titled *Simple Machines*. Include a definition, an example of a tool that uses one or more simple machine, and a graphic of each of the six simple machines. Use the illustrations provided or your own. You can also use the writing paper pages and covers or your own paper.
- Make a color drawing (Art Project) of 6 simple machines. Label each type of simple machine.

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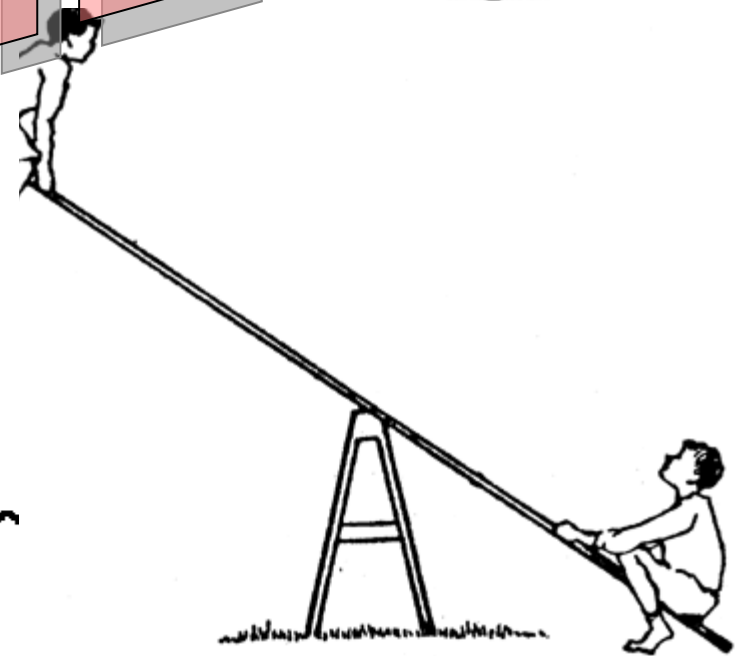
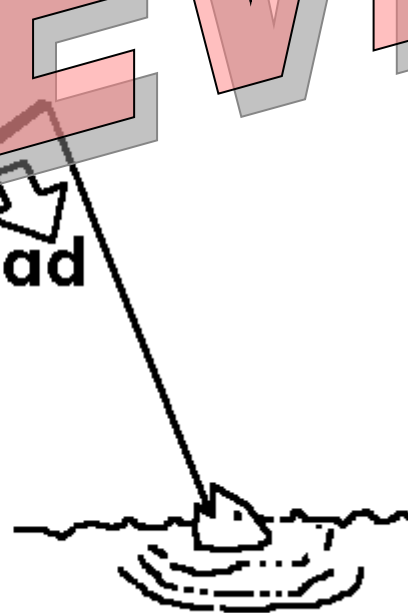
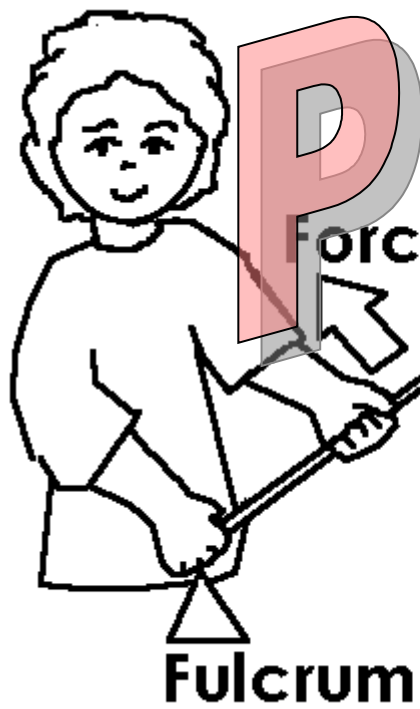
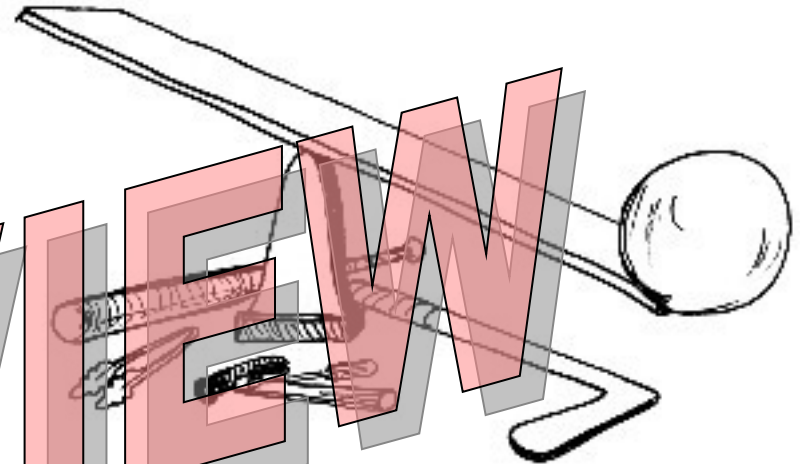
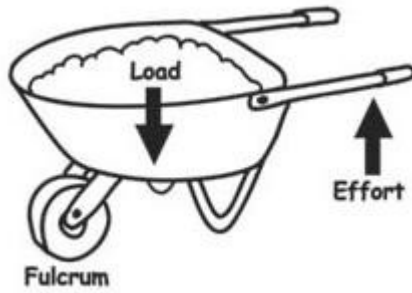
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SIMPLE MACHINES VOCABULARY QUIZ

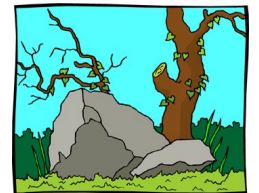
1. ___ force
2. ___ work
3. ___ load
4. ___ simple machine
5. ___ lever
6. ___ inclined plane
7. ___ wheel & axle
8. ___ wedge
9. ___ pulley
10. ___ screw
11. ___ gear
12. ___ compound machine
13. ___ machine
14. ___ fulcrum
15. ___ fixed pulley
16. ___ moveable
- A. the object to be moved
- B. a special kind of wheel and axle – a wheel with teeth, or cogs
- C. when a force is used to move something
- D. a slanted surface that makes it easier to move an object to a higher or lower place
- E. the support on which a lever turns
- F. a wheel with a rope around it, used to move objects to places that are hard to reach
- G. a simple machine formed by two inclined planes used to push two objects apart
- H. an inclined plane wrapped around a post used to fasten things together
- I. a simple machine that is made of a wheel that turns on a center post
- J. a pulley that stays in one place when it is being used
- K. a pulley that moves as a load is moved
- L. an action that changes the motion of something; a push or pull needed to make something move
- M. something that helps people do work
- N. simple machine used to lift or move things
- O. a machine with few or no moving parts
- P. a machine made of two or more simple machines

pulley

LEVERS



Find a rock to use as a fulcrum for the lever.



LINKS

Animations

[Animations of three classes of levers](#) –
Enchanted Learning
[Animation and explanation of how gear ratios work](#)

Games

[Simple Machines Game](#) – click on the machines you see; is it a lever, pulley, or wheel & axle?
[Simple and Compound Machine Game](#)

Lesson Plans

[HotChalk](#)
[Identifying Simple Machines](#)
[Simple Machines.pdf](#) – many activities
[Doing Work on the Farm.pdf](#)
[Brain Pop](#)
[New Creations from Six Simple Machines](#)

Miscellaneous

[Online Quiz](#)
[Books for Teaching Simple Machines](#)
[Teacher Ideas for Teaching Simple Machines](#)

PowerPoint Presentations

[The Six Simple Machines PowerPoint](#) - a 26 slide show with good examples and illustrations (the movie file is not included thus slide 26 does not work)
[Work and Simple Machines PowerPoint](#) - a 47 slide show with practice questions

Projects

[Design a Display](#)
[Webquest](#)

Videos – General Simple Machines

[Three Simple Machines](#)
This segment introduces the lever, wheel and axle, and pulley as three of the six simple machines that help us complete work more easily.
[Dr. Skateboard's Action Science](#) – Simple Machines

Videos for Purchase

[Bill Nye the Science Guy Simple Machines](#)