

Simple Machines Combination Notes

Name: _____

1. _____ is when an applied _____ causes an object to _____ in the direction of the _____.

Illustration of Work

2. Work is done only when an object _____ in the _____ of the force that is being applied.

Examples of Work

3. Work = _____ X _____

4. A _____ is a device that makes _____ easier by changing the _____ or _____ of a _____.

Examples of Machines

5. _____ machines have _____ or more _____ machines.

6. There are _____ types of simple machines.

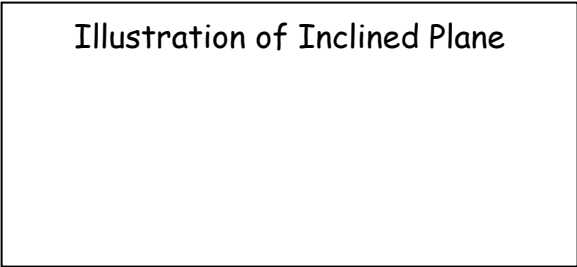
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7. Inclined Plane

a. _____, _____ surface

b. Makes work easier because _____



8. Describe an example of when you used an inclined plane to make work easier

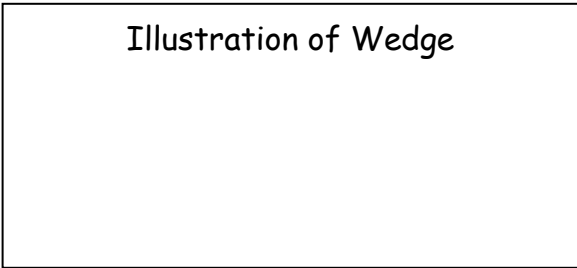
9. Wedge

a. Inclined plane that _____

b. _____ inclined planes _____

c. _____ at one end than at the other

d. Makes work easier because _____



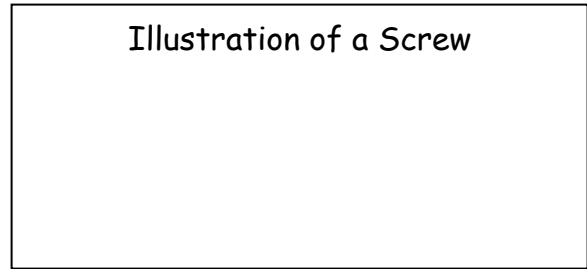
10. Describe an example of when you used a wedge to make work easier _____

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11. Screw

a. _____ wrapped
around a _____ with a _____
at the tip.



b. Makes work easier because _____

c. _____ threads on a screw make it _____ to turn

d. A screw might be a complex machine because it has both an _____
_____ and a _____.

12. Lever

a. Made up of a _____ that _____ at a fixed point called a
_____.

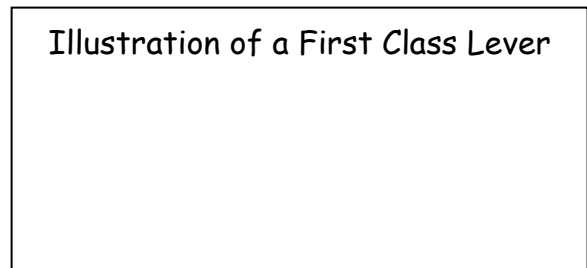
b. _____ applied to a lever is called the _____.

c. _____ moved is the _____.

d. _____ classes of levers.

13. Levers - First Class

In a first class lever, the _____ is in the
_____ and the _____ and
_____ is on either side.



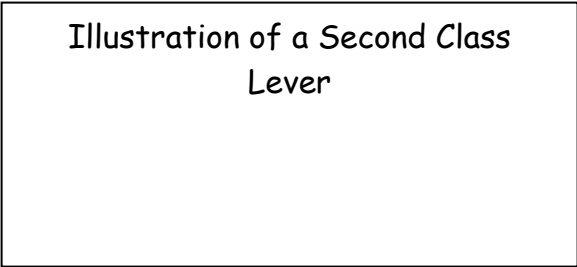
Be sure to label the fulcrum, effort, and
load

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14. Levers - Second Class

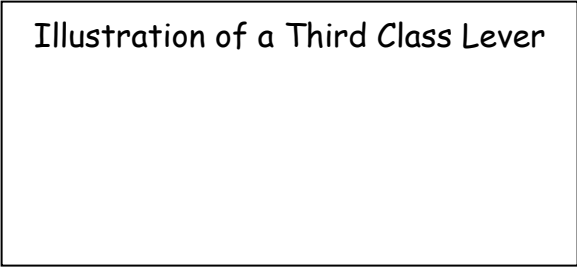
In a second class lever, the _____ is at the _____, with the _____ in the _____.



Be sure to label the fulcrum, effort, and load

15. Levers - Third Class

In a third class lever, the _____ is at the _____, with the _____ in the middle.



Be sure to label the fulcrum, effort, and load

16. Describe an example of when you used a lever (first, second, or third class) to

work easier _____

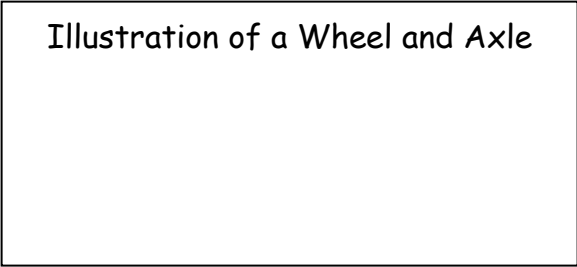
17. Wheel and Axle

a. Consists of two _____ objects of _____ sizes.

b. A _____ is connected to a _____.

c. _____ is larger than the _____

d. Makes work easier because _____



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18. Describe an example of when you used a wheel and axle to make work easier

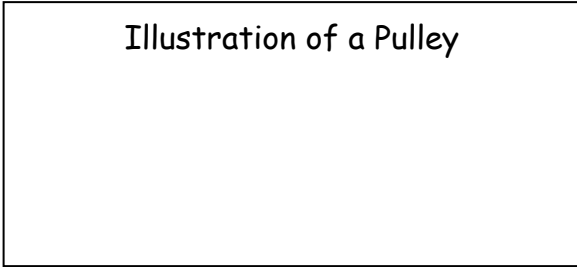
19. Pulley

a. Wheel and axle with a _____
around the outside.

b. A pulley needs a _____, _____
or _____ around the groove to make it work.

c. Pulley systems can consist of one or more _____ pulleys, one or more
_____ pulleys, or both _____ and _____ pulleys.

d. Makes work easier because _____



20. Describe an example of when you used a pulley to make work easier _____
