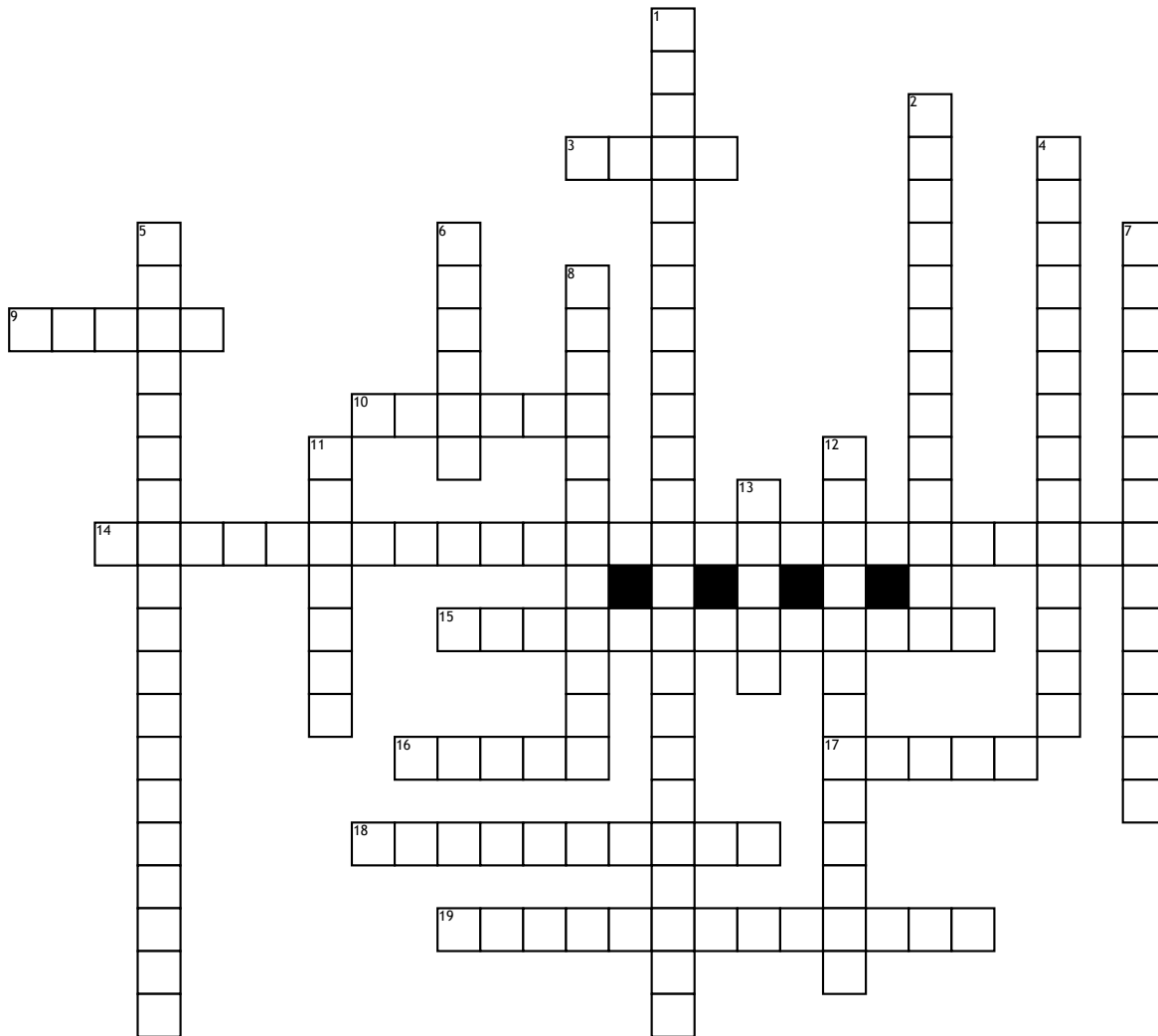


Simple Machines



Across

3. The resistance to our effort on a simple machine is called;

9. A screw's threads are sloped, but are wrapped about the cylinder, so we use a different term to describe this. What is that word?

10. What is the twisting force placed on a screw called?

14. You calculate this by taking actual force readings or speed readings from input and output.

15. You are wanting to get a reasonably sized object from the floor of a stockroom to the catwalk you are standing on, and there isn't motorized help or another person, what could you use?

16. When you want to hold a door open but you have to use it, if there is not kick-down stopper, what is best to use?

17. What is an inclined plane wrapped around a cylinder called?

18. If you calculate the difference between actual and ideal mechanical advantage, what does this tell you about your machine?

19. Which simple machine is also represented by a seesaw?

Down

1. What can you calculate by using measurements of the machine itself?

2. If you have a gravity car race, you will need a surface to race the cars down. What simple machine would this be?

4. You are 4-wheeling in a truck, and manage to get stuck in the mud. The wrench doesn't work and the truck is heavy. What can you use?

5. The ratio between output and input is called;

6. The amount of force you apply to a simple machine is called;

7. Should I be lifting a large object a great distance that is not heavier than I am, what could I use?

8. What simple machine on a bicycle allows you to move down the street?

11. The part of the lever that the arms rotate about is called;

12. If you go fishing with a rod, what type of lever would this be?

13. What is calculated by the division of rise and run?