Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Machines Webquest

1. Go to [**http://www.edheads.org/activities/simple-machines/**](http://www.edheads.org/activities/simple-machines/)
2. Click on CLICK HERE TO START, Then THE HOUSE, Then GARAGE
3. Identify all 10 simple machines in the garage
4. What was your score?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Go to the BEDROOM click on the fan.
6. What type of simple machine is a fan blade?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. What was your score in the bedroom? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Go to the **Tool Shed**. What is a compound machine?
9. Identify the simple machines that make up a drill:
10. Identify the simple machines that make up a Stapler
11. Identify the simple machines that make up a Wheelbarrow.
12. Identify the simple machines that make up a Can opener.
13. Go to **http://sunshine.chpc.utah.edu/Labs/Machines/** and balance the teeter totter. Where did you have to position Harry and Pic in order to balance it?
14. List the six types of simple machines.
15. Click on **Wedge and Lever** Choose a wedge length and click add mass.
16. How much mass did it take to split the rock? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
17. What length of wedge gave a higher mechanical advantage?
18. Click the next button to get to the lever
19. How will a lever make lifting the block onto the cart easier?
20. Drag the Fulcrum and determine the minimum distance needed in order to lift the stone.
21. Go to the INCLINED PLANE. Make a list of inclined planes you have seen in your life.
22. From your chart of data, find the maximum effort our crew member can sustain to push the stone up the inclined plane.
23. What is the length of this inclined plane?
24. Would this be the ideal length to use for the inclined plane?
25. What other factors might you consider?
26. Go to <http://sciencenetlinks.com/interactives/powerplay.html> Click Start
27. Create a complex machine that makes the wind mill walk the dog. Using FULL SENTENCES describe what you did to make the dog go for a walk.
28. Create a complex machine that feeds the flower. Using FULL SENTENCES describe what you did to feed the flower.
29. Crate a complex machine that Cuts the Log. Using FULL SENTENCES describe what you did to cut the log