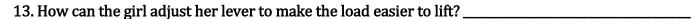
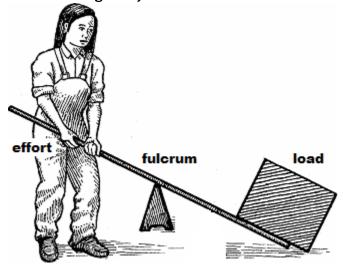
Simple, Compound & Complex Machines	Scientist:		
Work, Force, Machine Efficiency	Block:	Date:	
6.P.3B.1 Plan and conduct controlled scientific investigations to provide	e evidence for hov	v the design of simple machine	es (i
levers, pulleys, inclined planes) helps transfer mechanical energy by re	ducing the amoun	t of force required to do work	

including 6.P.3B.2 Design and test solutions that improve the efficiency of a machine by reducing the input energy (effort) or the amount of energy transferred to the surrounding environment as it moves an object. What are the 7 Simple Machines? 2. _____

8. What do simple machines do? _ 9. What is the simple machines chant? A simple machine of course, of course, 10. What type of pulley does NOT reduce effort force? 11. Label and draw the 3 types of pulleys.

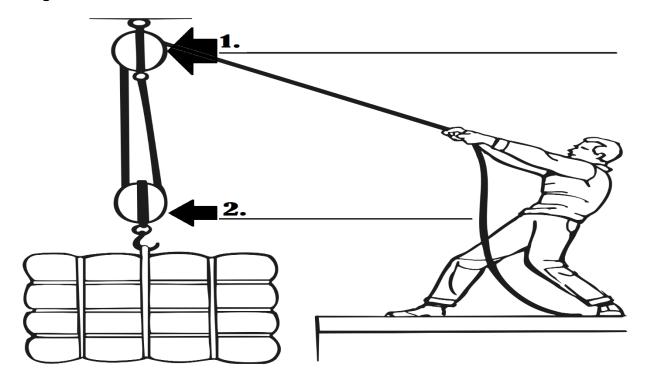
12. Draw three different types of levers.





14. How can you reduce effort force to get something up a ramp easier?

15. Block and tackle systems do two things, please list each by the numbers below for the pulley the arrow is pointing to.



16. A screw is related to which other simple machine?	
How?	

- 17. What simple machines are in a bike? _____
- 18. What is a compound/complex machine?
- 19. Give two examples of a compound/complex machine: 1. ______ 2. _____
- 20. What is machine efficiency?