Guided Reading Chapter 7 Section 1

| 1. | A | A is a device with moving parts that works together to accomplish a | | | | | |
|-----|--|--|----------------|--|--|--|--|
| | task. | | | | | | |
| 2. | What is the difference between output force and input force? | | | | | | |
| 3. | A simple mach movement(s). | simple machine is an unpowered mechanical device that accomplishes a task inovernent(s). | | | | | |
| | a) tv | wo b) three | c) one | | | | |
| 4. | Name a few s | simple machines. | | | | | |
| 5. | A is a long, rigid, structure that rotates on a fixed point called the fulcrum | | | | | | |
| | a) ge | gear b) ramp | c) lever | | | | |
| 6. | 5. Complete the following table. | | | | | | |
| | | Part of a Bicycle | Simple Machine | | | | |
| | | Wheels | | | | | |
| | | | gears | | | | |
| | | | lever | | | | |
| | | Pedals | | | | | |
| 7. | A is a rotating wheel with teeth that receives or transfers forces and mot other gears or objects. | | | | | | |
| | a) go | gear b) ramp | c) lever | | | | |
| 8. | What is mech | nanical advantage (in words |)? | | | | |
| 9. | . Write the equation used to calculate the mechanical advantage of a simple machine. | | | | | | |
| 10. | What is the difference between the input arm and the output arm on a lever? | | | | | | |

| 11. | Sketch the three classes o mechanical advantage (>, | | n), including labels. Label each as to its | | | |
|--|---|-----------------------|---|--|--|--|
| 12. | In science, | is the transfer of en | ergy received when a force acts over a distance | | | |
| 13. Write the equation used to calculate work. | | | | | | |
| 14. | Doing work always means | | _ energy. | | | |
| 15. Describe the three forces (in terms of work) in Figure 7. 7. | | | | | | |
| 16. Work is done when force causes | | | | | | |
| | a) motion | b) time | c) inactivity | | | |