1. Circle **True** or **False**:
   
a) A force makes something move. **T**
b) Turning is a type of movement. **T**
c) Bouncing is not a type of movement. **T**
d) You can move something by pushing it. **T**
e) You cannot move something by pulling it. **T**
f) A fulcrum is always the middle of a lever. **T**
g) A bigger slope makes things move down easier. **T**
h) All balls bounce the same.

2. Fill in the blanks to complete the sentence.
   
a. A _______ **wedge** is a tool with a slanting side that ends in a sharp edge.
   
b. A _______ **wheel and axle** make it easier to push or pull something.
   
c. A _______ **pulley** is a grooved wheel that holds a rope.
   
d. A _______ **screw** is an inclined plane that goes in a spiral. It helps hold things together.
   
e. An _______ **inclined plane** is a slanted surface connecting two levels.
   
f. A _______ **lever** is a bar that is used to help move something.

<table>
<thead>
<tr>
<th>inclined plane</th>
<th>lever</th>
<th>pulley</th>
</tr>
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<tbody>
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</table>
3. Match the type of simple machine to the pictures.

[Diagram with matching arrows for Lever, Screw, Inclined Plane, Wedge, Pulley, and Wheel and Axle to their respective pictures.]

4. A bicycle is a mechanism that uses many different simple machines.

   a. Name the simple machines on a bicycle.

   wheel and axle, pulley, screw, and lever  - 2 marks

   b. How does a bicycle make life easier for humans?

   - Can get places faster.

   - Can move with less effort.

   - Can travel further than by foot.      - 3 marks
5. Explain how simple machines help humans.

- They make it easier to do work.
- They make it easier to lift things.
- They make it easier to move things.
...etc

6. Explain how simple machines can be bad for humans.

- They make people lazy.
- We don't get as much exercise.
- We become dependant on them.
...etc

7. Explain how simple machines can affect the environment.

- Factories make pollution when they make them.
- When they are broken they go to the dump.
- They make it easier to cut down trees.
- It takes a lot of energy to make them.
...etc
LEVER  SCREW  PULLEY  WHEEL AND AXLE  WEDGE
INCLINED PLANE  FORCE  MOVEMENT  PUSH  PULL  TURN
TWIST  BOUNCE  SIMPLE  MACHINE  MECHANISM  FULCRUM