| Name | - | | Date |
|--|--------------------|-----------------------|------------------|
| | Simple Ma | chines Test | |
| Section One: Levers | | | |
| Draw images of a first the real world . | st, second and thi | rd class lever that y | ou would find in |
| Make sure to inclua) fulcrum b) effort force c) load d) the class of lev | | f the following | |
| What is the mechanic | cal advantage of a | third class lever? | |
| Identify the following Class in the space pro | | First Class, Second | Class or Third |
| Hockey Stick | Class Lever | Paper Cutter | Class Lever |
| Wheel Barrow | Class Lever | Fishing Rod | Class Lever |
| Book Cover | _ Class Lever | Scissors | _Class Lever |

Section Two: Pulleys

Complete the following chart

| | Fixed Pulley | Moveable Pulley | Combined Pulley |
|---------------|--------------|--|-----------------|
| Illustration | | | |
| Advantages | | Reduces the amount of effort force required | |
| Disadvantages | | You have to pull in the same direction as the load is being lifted | |

Section Three: Incline Planes and Screws

| Mr. Mr. Borschma needs to bring his priceless signed David Beckham post down from their hiding shelf on top of Smythenholtzen's cupboard | er |
|---|----|
| Create three simple sketches showing three different incline planes he can use to retrieve his poster safely | |
| Provide a situation where a screw would be preferable to a nail: | |
| | _ |
| What is the advantage of a nail over a screw? | _ |
| | _ |
| List 4 different types of screws | |

Section Four: Wedges and Wheels and Axles

| How does a wedge work? Complete the following sentence filling in the missing words: |
|--|
| A wedge works when you push on its part. This gives |
| you a mechanical advantage by changing the of your |
| · |
| There are two types of wedges. Most wedges, like the blade of an axe, are |
| incline planes put together. These wedges are used to |
| · |
| Other wedges, like a doorstop, have only one incline plane. These wedges |
| are used to or stop objects from moving. |
| Trivial Pursuit |
| 1. If you had a golf ball and you wanted to hit it as far as you possibly |
| could with your golf club, what class lever would you use? |
| 2. Human teeth are examples of this simple machine: |
| 3. An ulu is an example of this type of simple machine: |
| 4. If you wanted to pry a rock up to look under it, what type of simple |
| machine would you use? |
| 5. A door handle is an example of this type of simple machine: |
| |