**Year 7 Physical Science Revision**

1. Define FORCE.
2. Force is measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_)
3. What visible effects can tell us that a force is acting?
4. Complete the text using the word bank below. Some words are used more than once.

N DIRECTION PULL(S) ACCELERATE PUSH SHAPE NEWTONS TWIST

A force is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Gravity \_\_\_\_\_\_\_ objects towards each other. Friction is a \_\_\_\_\_\_\_\_\_\_\_ that opposes motion. A force can make things \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, make moving things change \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or change the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of an object. Force is measured in the units called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and uses the symbol \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. For each of the forces below state whether they are contact or non-contact forces.

|  |  |
| --- | --- |
| **Force** | **Contact or Non-Contact** |
| Applied |  |
| Electrostatic |  |
| Friction |  |
| Gravitational |  |
| Magnetism |  |
| Tension |  |

1. Draw a diagram to show the forces acting on you while you are seated still on a chair.
2. Shelley was paddling her kayak at a constant speed across the lake.

Draw and label arrows to show the name and direction of the four forces acting on the kayak.



1. Define FRICTION
2. Complete the table

|  |  |  |  |
| --- | --- | --- | --- |
| Situation | Balanced or unbalanced? | Direction of net force | Describe the change in motion |
| Truck is moving to the right  500 N  1000 N |  |  |  |
| Car is moving to the right |  |  |  |
| Plane is moving to the left |  |  |  |