Contact and Non-Contact Forces

1. **Fill in the blanks.**
   1. is a force between two objects (or an object and a surface) that is in contact with one another.
   2. is an attractive force between any two objects and causes objects to accelerate downward, towards the center of the Earth.
   3. A is experienced by any magnetic material in a magnetic field. It is an attractive and repulsive force (push and pull)
   4. An object that is being stretched experiences a .
   5. An object at rest on a surface experiences  **.**
   6. Two objects sliding past each other experience .
   7. An object moving through the air experiences **,** which is a type of friction that slows falling objects.
   8. A is a force that can act between two objects that are not physically touching each other.
   9. The attractive and repulsive force (push and pull) between charged particles of matter is an .
   10. An is a force that is exerted on an object by a person or another object.
2. **Circle the answers that are correct for each question.**
   1. The factors that affect **magnetic force.**

Distance between magnets Size of magnet Mass of magnet Speed of magnetism

* 1. The factors that affect **electrostatic force.**

Amount of charge Mass of particles Size of particles Distance between charges

* 1. The factors that affect **gravity**.

Weight of objects Mass of objects Speed of objects Distance between objects

1. **Draw a line from the picture to the correct force**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | C:\Users\mgalluzzo\Desktop\men-clipart-mowing-lawn-18.gif |  |
| C:\Users\mgalluzzo\Desktop\images.png |  | C:\Users\mgalluzzo\Desktop\search-results-for-cartoon-tug-of-war-651171.gif | C:\Users\mgalluzzo\Desktop\images (1).png |

|  |  |  |  |
| --- | --- | --- | --- |
| Magnetism | Electrostatic | Friction | Gravity |
| Applied | Tension | Air Resistance | Normal |

1. **Look at the forces in problem #3 and identify if each one is a contact force or a non-contact force. Place the name of the force in the correct column.**

|  |  |
| --- | --- |
| **Contact** | **Non-Contact** |
|  |  |