

Name: \_\_\_\_\_

Date \_\_\_\_\_ T: use a virtual investigation to find out about magnets and spring

- 1) When you pull the spring all the way back to the red light it travels further because there is a greater force pushing it.
- 2) When you only pull the magnet back to the yellow light it travels less far because there is a weaker force pushing it.
- 3) The magnet can pick up the key because the key is made of a magnetic metal.
- 4) The magnet cannot pick up the can because the can is made of a non-magnetic metal (probably aluminium).
- 5) The red **and** the white side of the magnet can both pick up the paper clip because both ends of a magnet attract magnetic materials.
- 6) When you try to pick up the magnet with the red sides of both magnets near each other the magnets repel each other because like poles repel each other.
- 7) When you try to pick up the magnet, with the red side of one magnet near the white side of the other magnets the magnets attract each other because unlike poles attract each other.
- 8) The small magnet does need to be closer to the screwdriver in order to attract it than the big magnet needs to be because it has a weaker magnetic force.
- 9) The small magnet does need to be closer to the magnet than the big magnet needs to be in order to repel it because it has a weaker magnetic force.