

6. A plane flies 3000km from Hawaii to Los Angeles in 6 hours what is the velocity of the plane? Include the direction. _____ Unit km km/hr hr km/hr east km/hr west km/hr north

7. Newton's First Law of Motion states an object at rest will _____ at rest and/or an object in motion _____ in motion unless acted upon by a(n) _____ force. This is also known as the Law of _____.

8. Families on the periodic table are in **(columns, rows)** and periods are in **(columns, rows)**.

9. Newton's Second Law of Motion states that force is equal to **mass times**.

10. In this equation $MgCO_3 \rightarrow MgO + CO_2$, the reactants are **MgCO₃** **MgO** **CO₂** and the products are **MgCO₃** **MgO** **CO₂**

11. Select True or False next to each statement. All nonmetals (except hydrogen)

- _____ are found pure in nature.
- _____ are liquids at room temperature
- _____ are all very reactive
- _____ are found right of the zig-zag line on the periodic table.

12. Select True or False next to each statement concerning nuclear energy.

- _____ a small amount of matter produces a large amount of energy
- _____ Nuclear fusion occurs on the sun.
- _____ Nuclear fission happens when nuclei join.
- _____ Nuclear fusion happens when two hydrogen combine to form a helium and release a tremendous amount of energy.
- _____ Nuclear fusion is happens when nuclei are split.
- _____ radioactive waste is a product of nuclear fission.
- _____ During nuclear fission an atom splits are releases a large amount of energy. Which is used in nuclear power plants to produce low cost electrical energy.
- _____ One advantage of nuclear energy is that it produces almost no air pollution.

13. If your mass on Earth is 60kg what would your mass on the moon be? _____ kg

14. If you throw a baseball upward it will travel upward until gravity forces it back to Earth. This is best explained by which one of Newton's Laws? _____