

Name: KEY

## 8<sup>th</sup> Grade Science Pre-test

*Directions: Do your best to answer these questions, all of which you will learn over the course of your grade 8 year in your Physical Science and Technology courses*

1. Chemical formula for carbon dioxide

\_\_\_\_\_CO<sub>2</sub>\_\_\_\_\_

2. Chemical Symbol for Gold

\_\_\_\_\_Au\_\_\_\_\_

3. Location of the asteroid belt (between which two planets?) \_\_\_\_\_MARS AND JUPITER

4. The Hottest planet

\_\_\_\_\_VENUS\_\_\_\_\_

5. Name one compound \_If it has two elements/capital letters, you are correct! (H<sub>2</sub>O)

6. Name two types of bridges \_BEAM, TRUSS, SUSPENSION, CABLE STAYED, ARCH, CANTILEVER, ETC

7. Name of the Sun's nearest neighboring star PROXIMA (or Alpha) CENTURI\_\_\_\_\_

8. Temperature water freezes in Celsius

\_\_\_\_\_0°\_\_\_\_\_

9. Acceleration due to gravity on earth

\_\_\_\_\_9.81m/s/s\_\_\_\_\_

10. Temperature water boils in Fahrenheit

\_\_\_\_\_212°\_\_\_\_\_

11. The force of an object's motion.

\_\_\_\_\_MOMENTUM\_\_\_\_\_

12. Name the 8 phases of the moon:

NEW

WAX CRESCENT

1<sup>ST</sup> QUARTER

WAX. GIBBOUS

FULL MOON

WANING GIBBOUS(!)

LAST QUARTER

WAXING CRESCENT

13. Who discovered the 3 Laws of motion?

\_\_ISAAC NEWTON\_\_\_\_\_

14. Name of Medfield's watershed

\_\_CHARLES RIVER\_\_\_\_\_

15. Standard unit of volume in the metric system: \_\_\_LITER\_\_\_\_\_

16. Name of the galaxy in which we live

\_\_MILKY WAY\_\_\_\_\_

17. Process of Solid turning into a gas

\_\_\_SUBLIMATION\_\_\_\_\_

18. Name of the curve at the top of a liquid in a graduated cylinder \_MENISCUS\_\_\_\_\_

19. Formula for density

\_\_\_\_\_ =M/V\_\_\_\_\_

20. Type of bond where electrons are shared

\_\_\_\_\_COVALENT\_\_\_\_\_

21. 2 factors that effect the gravitational pull between the Sun and other objects in space:

MASS (of objects) and

DISTANCE BETWEEN THEM

22. Density of water \_\_\_1 G/mL\_\_\_\_\_

24. Smallest sub atomic particle of an atom

\_\_\_\_\_ELECTRON\_\_\_\_\_

25. Season when the earth is closest to the sun

\_\_\_\_\_WINTER\_\_\_\_\_