**Dr. Antinora**

**Physics 1**

**Diagnostic Pretest (This test does NOT count toward your grade)**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PD: \_\_\_\_\_\_ DATE: \_\_\_\_\_\_\_\_\_\_\_**

**Matching: Which tool is the best job for?**

\_\_\_\_\_ 1) measuring the length of a football field

\_\_\_\_\_ 2) measuring the weight of a pencil

\_\_\_\_\_ 3) measuring the volume of a can of coke

\_\_\_\_\_ 4) measuring the temperature of an aquarium

\_\_\_\_\_ 5) viewing a very small object, like a cell

\_\_\_\_\_ 6) comparing data

\_\_\_\_\_ 7) lifting a heavy box

\_\_\_\_\_ 8) withdrawing a sample of blood

A: Meter Stick

B: Thermometer

C: Syringe

D: Microscope

E: Pulley

F: Bar Graph

G: Triple Beam Balance

H: Graduated Cylinder

**Solve these equations   (no calculators!)**

9)   2 x + 6 = 20          x = \_\_\_\_\_

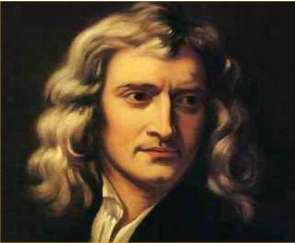
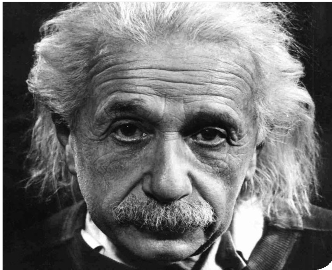
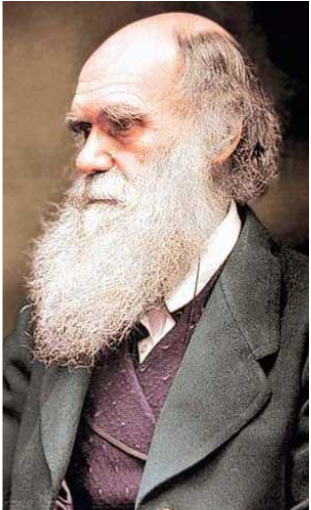
10)  3 + 4x = 27             x = \_\_\_\_\_

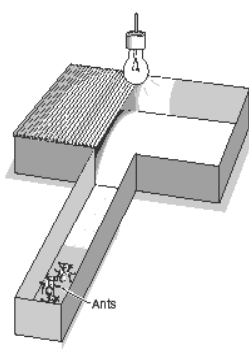
11)  18 = 6x                 x = \_\_\_\_\_\_

12)  2 + 6 - 4 + x = 14     x = \_\_\_\_\_\_

13)  15 / 20 = what percentage? \_\_\_\_\_\_\_

**Who are these people?** Einstein, Newton, Darwin

14) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 15) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 16) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



17) This experiment was probably set up to answer which question?

1. What is the mass of the ants?
2. Will ants go to a dark or light area?
3. How many kinds of ants are there?
4. Where do ants get food?

**Match the science to its description**

\_\_\_\_\_ 18) Anthropology

\_\_\_\_\_19) Physics

\_\_\_\_\_ 20) Chemistry

\_\_\_\_\_ 21) Biology

\_\_\_\_\_ 22) Meteorology

\_\_\_\_\_ 23) Physiology

the study of.......

1. the composition of substances and their properties and reactions
2. human origins
3. the functions of organs and systems
4. weather and atmosphere
5. life
6. study of matter and energy and how they interact

24) A tennis ball and a bowling ball are dropped from a tower. Which one lands first?

25) You and your friend are on a frozen pond. Your friend pushes you and you move to the left. What happens to your friend?

26) What are the colors of the rainbow?

27) **TOUGH QUESTION:** What are the (now) 8 planets of our solar system (in order from the sun outward)?

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_