

## Basic Chemistry for Biology Students

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

We will only watch the first 10 min or so and it goes FAST, so listen carefully.

1. Matter is made up of \_\_\_\_\_
2. Atoms are made up of three particles. What are they? \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
3. The term for chemicals made up of only one type of atom is:  
\_\_\_\_\_
4. The element that has 4 protons is \_\_\_\_\_
5. The 6 most biologically important elements are:
  - 1) \_\_\_\_\_
  - 2) \_\_\_\_\_
  - 3) \_\_\_\_\_
  - 4) \_\_\_\_\_
  - 5) \_\_\_\_\_
  - 6) \_\_\_\_\_
- 6a) Protons have a \_\_\_\_\_ charge.  
b) Electrons have a \_\_\_\_\_ charge.  
c) Neutrons have a \_\_\_\_\_ charge.
7. The # of protons plus the # of neutrons = the atomic \_\_\_\_\_
8. Having the same # of electrons as protons makes an atom electrically what?
9. A charged atom is called an \_\_\_\_\_.
10. O-C-O and H-N-H and H-O-H are all held together by \_\_\_\_\_ bonds.
11. A covalent bond is stronger or weaker than an ionic bond? (circle correct ans)
12. The symbol for hydrogen ion is : \_\_\_\_\_ and for hydroxide ion is : \_\_\_\_\_.
13. The pH scale goes from 1 to \_\_\_\_\_. Neutral pH is: \_\_\_\_\_, acidic is \_\_\_\_\_ than 7, and basic is \_\_\_\_\_ than 7.
14. The chemistry of carbon and carbon compounds is called \_\_\_\_\_ chemistry.