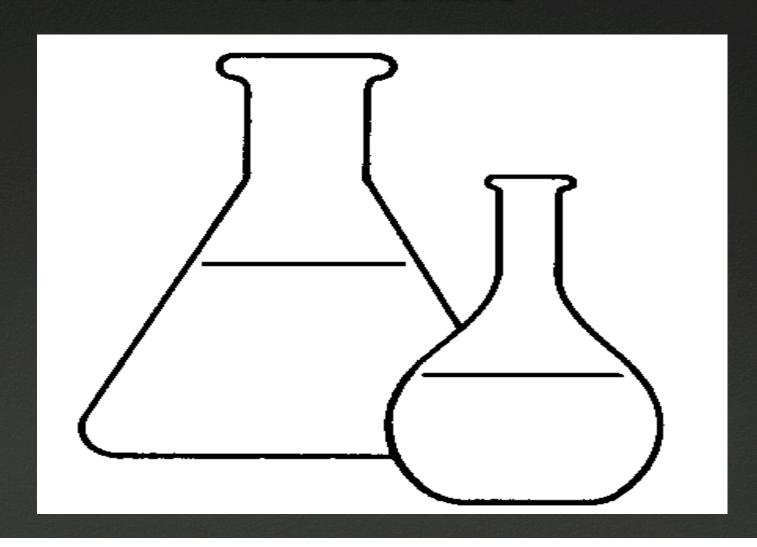
# Chemistry II Welcome



## Why are you here?



- First, you are here because you chose to be here
- College prep
- Thinking about a science or technical career
- Building a bridge to your future. Giving yourself OPTIONS!

## What Chemistry offers you

- 1. College prep & a competitive advantage
- 2. Medical field



- 3. Doctor, dentist
  - 1 Nursing
  - 2 Physical therapy, occupational therapy
  - 3 Medical technician

### What Chemistry offers you



- 3. Any Science field require chemistry
  - 1. Engineering
  - 2. Computer hardware
  - 3. Biology, Geology & other "ologies"
- 4. Citizenship Making informed decisions
  - 1. Global warming
  - 2. Energy crisis

### More good stuff



- A chemistry background is a bridge crossed
- Colleges know that you have taken a challenging curriculum
- You develop a greater understanding of the world in which we live

# Atomic structure practice What you know from MATTER

«Atoms?

∞Ions?

«Isotopes?

### Answer these

-0000

- 1. Ca represents an \_\_\_?
- 2. Ca<sup>+2</sup> represents an \_\_\_\_?

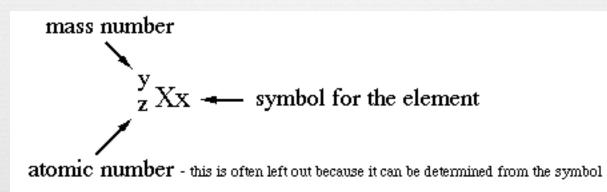
3. O<sup>-2</sup> represents an \_\_\_\_?

4. What are these?

- A. An atom of Calcuim
  - B. An ion of Calcuim (a cation)
  - C. An ion of Oxygen (an anions)
  - D. Isotopes of carbon

## Isotopes





### Review



- Atomic number is the number Protons & electrons
  These are equal for atoms (not ions)
- Mass number is the AVERAGE mass of all isotopes of that element
- Finding the neutrons: subtract the atomic number from the mass number this equals the number of neutrons (round off the mass number)

### Example



- Relement Cesium Cs
- Atomic number 55 so (55 P+ 55e-)
- Mass number 132.9 (average) round 133
- $\approx 133 55 = 78 \text{ so } (78 \text{ No})$
- This is a question on the final!