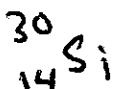


7. Silicon-30



- a) How many protons does it contain?
- b) How many neutrons does it contain?
- c) What group is it in?
- d) What period is it in?
- e) Is it a metal, nonmetal, or metalloid

$$\begin{array}{r} 14 \\ \underline{16} \\ 14 \\ \underline{3} \\ \text{metalloid} \end{array}$$

8. What is a nucleus and what particles are located in it?

nucleus = the center of the atom.

It contains protons and neutrons

9. Draw a sketch of Rutherford's gold foil experiment and label all the parts.

See notes

10. Carbon-14



- a) How many protons does it contain?
- b) How many neutrons does it contain?
- c) What group is it in?
- d) What period is it in?
- e) How many electrons does it contain?

$$\begin{array}{r} 6 \\ \underline{8} \\ 14 \\ \underline{2} \\ 6 \end{array}$$