



UNIT 3 — ATOMS, ELEMENTS, MOLECULES

L11: Mapping the
Periodic Table

GUIDING QUESTION: WHAT KIND OF INFORMATION CAN BE OBTAINED FROM THE PERIODIC TABLE?

Do Now: What different types of elements are there? List them below and compare them with your group members.

NOTES

On the periodic table, there are metals, non-metals and semi-metals (or metalloids)

- Metals are on the left (and middle) side of the periodic table
- Non-metals are on the right side of the periodic table
- Semi-metals are in between metals and non-metals and have properties of both.

NOTES

Group 1A – Alkali metals

Group 2A – Alkaline Earth metals

Middle block – transition metals

Group 7A – Halogens

Group 8A – Noble Gases

NOTES

Semi-Metals – Boron, Silicon, Germanium, Arsenic, Antimony, Tellurium, Astatine

Other Non-metals – Carbon, Nitrogen, Oxygen, Phosphorus, Sulfur, Selenium

Gases (@ Room Temperature) – Noble Gases, Fluorine, Chlorine, Hydrogen

Liquids (@ Room Temperature) – Bromine, Mercury

Solids (@ Room Temperature) – Everything Else

CLOSURE

- Respond to Guiding Question
- Homework 11 due Friday, 12/1
- Achieve 3000: Throw Old Computers in the Trash?
No Way! due Friday 12/8 at 11:59pm

CLOSING

- Answer Guiding question (after activity)
- Homework 11 due Friday