

SCHOOL	LEVEL	LEARNING AREA	DATE	TIME	ROLL
	GRADE 8	INTEGRATED SCIENCE			

WEEK 1: LESSON 1

Strand: Elements, Mixtures and Compounds

Sub Strand: Elements and Compounds

Specific Learning Outcomes:

- By the end of the lesson, learners should be able to:

1. Explain the relationship between an atom, an element, a molecule, and a compound.
2. Use digital devices to search for information on the relationship between these concepts.
3. Acknowledge the relationship between molecules, atoms, elements, and compounds.

Key Inquiry Questions:

- What is the relationship between atoms and molecules?
- What is the relationship between elements and compounds?

Learning Resources:

- Digital devices (tablets, computers)
- Active Integrated Science textbook
- Lesson notes

Organisation of Learning:

Introduction (5 minutes):

- Begin by briefly reviewing the previous lesson on mixtures.
- Facilitate a discussion to activate prior knowledge about atoms, elements, and compounds.
- Ask guiding questions, such as: "Can anyone define what an atom is?"

Lesson Development (30 minutes):

Step 1: Understanding Basic Definitions

- In groups, learners will define the terms "atom", "element", "molecule", and "compound".
- Each group can use their digital devices to search for concise definitions and prepare a short presentation of their findings.

Step 2: Relationships Between Concepts

- Groups will discuss and document the relationships among the terms. For example, discuss how molecules are made of atoms and how elements consist solely of one type of atom.
- Each group should come up with visual representations (e.g., concept maps) to show these relationships.

Step 3: Exploring Examples

- Groups will use digital devices to find real-world examples of elements and compounds.
- They will then be tasked with identifying the atoms that make up these examples (e.g., H₂O, CO₂).

Step 4: Class Discussion and Sharing

- Each group will share their findings, focusing on one example and explaining how it fits into the definitions and relationships discussed.
- Encourage questions and further discussion among the whole class to reinforce understanding.