

RELATIONAL TEACHING FRAMEWORK

Title : Properties of elements in Periodic Table

Area : Relational Teaching

Process

Check in

Members are to choose an element from the periodic table and add an adjective in front to describe their own character. Eg “I am supportive sodium.”
Then write down the **FULL** symbol for the element (with number of protons stated) in the box on the activity sheet given. Members are not allowed to choose an element that has been chosen by other members.

Mixer

Big Wind Blow

Change places if the element you have written is

- 1) an element of PERIOD 1, 2, 3, 4, 5, 6 or 7
- 2) an element of GROUP 0, 1, 2, 3, 4, 5, 6 or 7
- 3) a transition metal, metal or non-metal
- 4) an element with odd/even/prime number of protons/electrons

Activity 1

Pair Share

Number the members in 1, 2, 1, 2, 1, 2, etc

Instruct all the ‘1’s to carry their chairs to face the ‘2’s on their left to form two concentric circles.

Exchange the activity sheet with your partner.

Write down the properties of the element your partner have chosen on the activity sheet.

Combine 2 pairs of members together and get them to share/check the properties listed on the activity sheets.

Make necessary corrections if needed.

Activity 2

Tape the piece of activity sheet onto your back and walk around the room to have five different members to fill up the callouts with properties of the element you have chosen. Members who write must leave their name in the callout too. When everyone has completed, you are to check for errors on the properties written on the activity sheet. Going in circle, you have to call the name of the member who have written an incorrect property and correct the mistake if any. You may pass if there is no error.

Feedback

Reinforce some of the important properties of selected group/element. Highlight common errors/concepts that members made.

Energiser for Activity 1

Tape the piece of activity sheet onto your back.
Play the CROC 'N' FROGS.
Lay butchers paper with labels like "Group 1", "Group 2", "Period 1", "Period 2", "Metal", "Non-metal", "Transition metal", "Halogens", "Noble gas", "Alkaline metal" on the floor

Energiser for Activity 2

Collect all the activity sheet and stick a random one on each member's back. Ask them to find all the members who belong to the same GROUP/PERIOD and arrange themselves in reactivity level/ density/ melting point/ boiling point/number of protons from low to high/ big to small in the shortest possible time without communication.

Check out

Name a single property of your chosen/partners' element that you are not aware of initially.
"I found out that"



Activity Sheet for Periodic Table

