Chapter - 6 Interactive Online Periodic Table – PTABLE

Objectives:

Familiarise interactive online periodic table using "ptable"

Identify symbols and recalls basic information of it

Comprehend the classification of elements into blocks

Finds the effect of temperature on various elements using temperature bar in interface

Classifies elements into metals, non-metals and metalloids

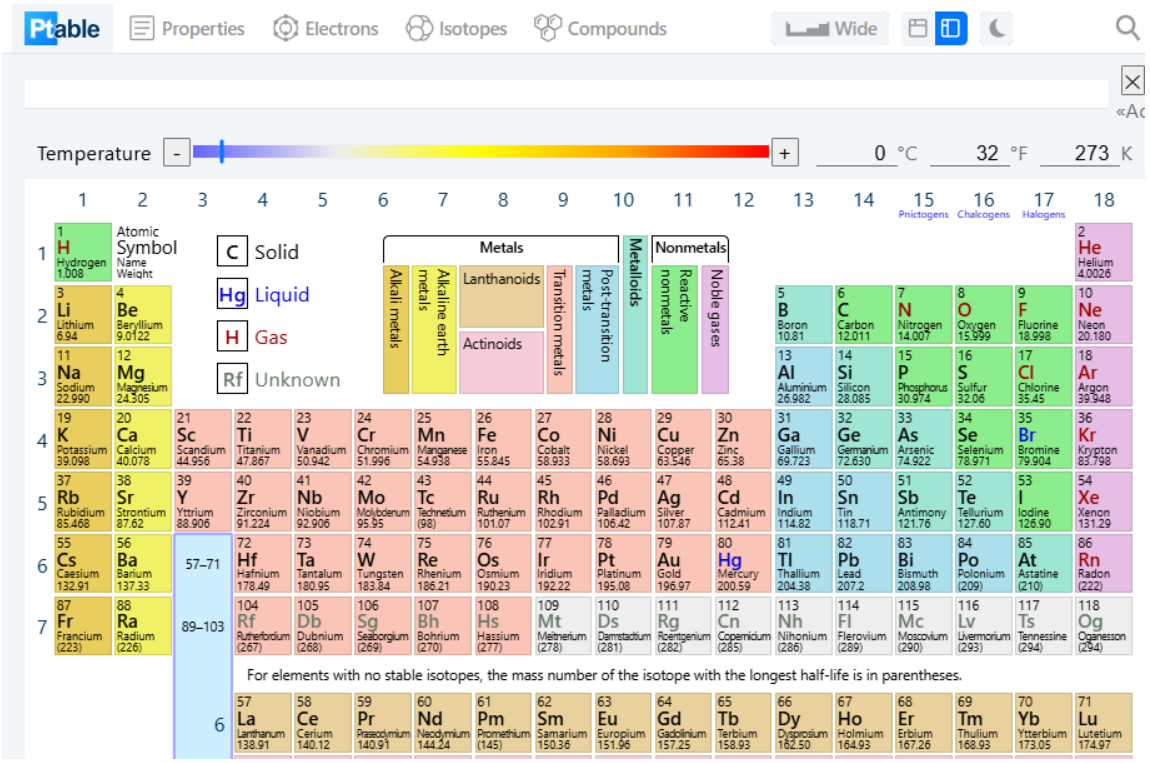
Skills to be attained:

Navigating and practising the functionalities of Ptable interface

Tools/website/Resources: ptable , Web link: https://ptable.com/?lang=en#

Teacher led instruction:

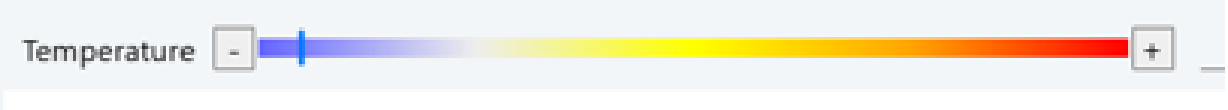
Step1: Search ptable in any browser or type the above link to open the periodic table.



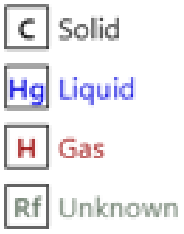
Step 2:Click the menu bar and know the options

1.Click the **Ptable** option in menu bar

Effect of temperature on elements:

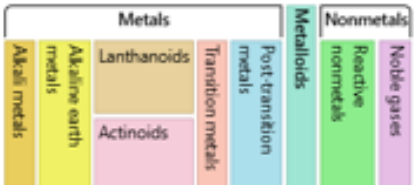


Move the cursor in specific box to identify how many elements are in solid , liquid gaseous state at specific temperature.



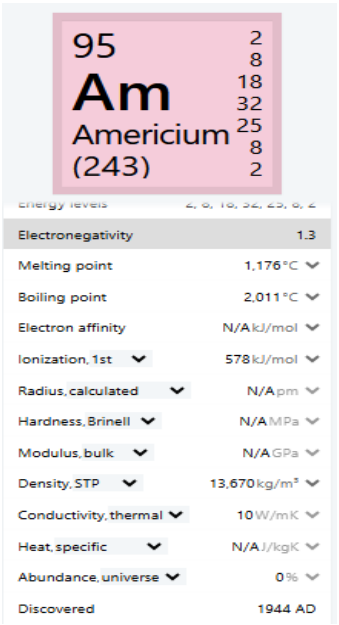
Classifies elements into metals,non metals and metalloids.

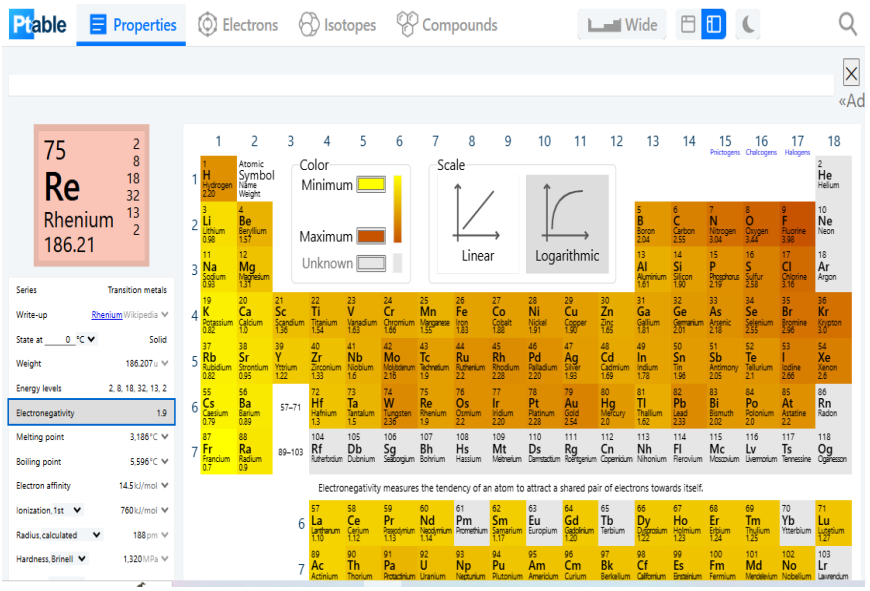
Move the cursor in specific box to identify the position of metals , nonmetals and metalloids in the periodic table.



Click on specific box to obtain in-depth information

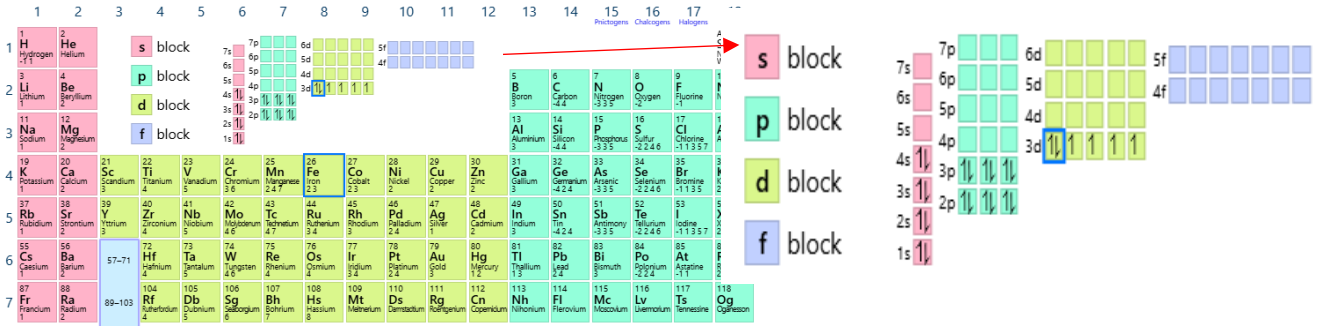
2.Click **properties** option in menu bar





click on the required property in left window to know about that particular property of all elements in a single click.

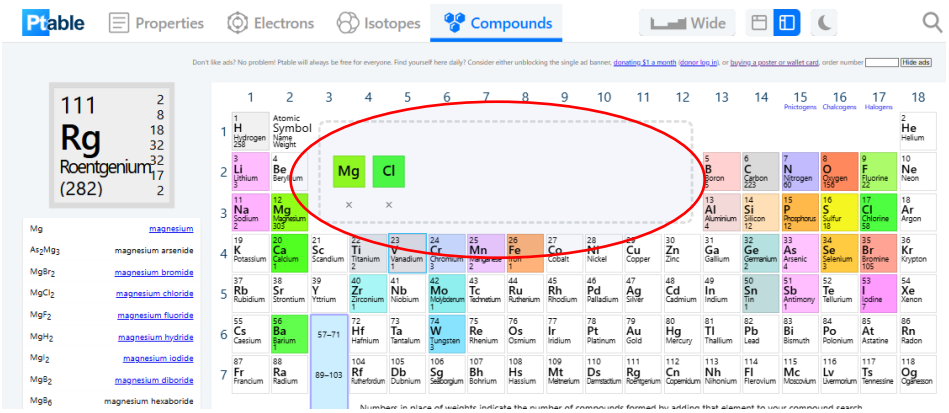
3.Click the **electrons** option



Move the cursor on s/p/d/f box to recognize s,p,d,f block elements.

Click a specific element in the periodic table to know its electronic configuration

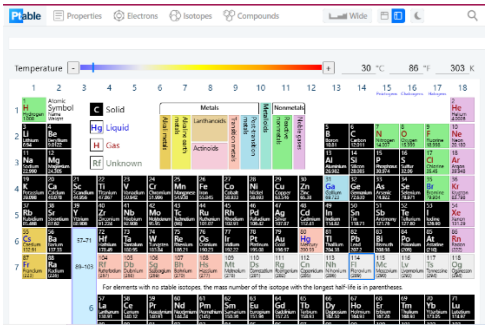
3.Click the **compounds** option



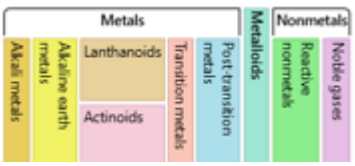
Drag and drop any two or more elements inside the box to create compounds.

Student's Activity:

Instruct students to find out elements that are in solid , liquid and gaseous state at 30^0C.



Select the metals, nonmetals, metalloids , Rare gas (noble gases) in the ptable.



Conclusion:

Recap the functionalities of ptable

Encourage the students to explore ptable to identify s,p,d and f block elements.