

EVOLUTION OF MODERN PERIODIC TABLE


TIME :120 mins

OVERVIEW: This presentation of Life of various scientists who helped us to formulate Modern periodic Table give us an insight on various researches these Scientists carried out at different laboratories in different parts of the world.


OVERVIEW: This presentation of sustainable agricultural practices help students understand various agricultural practices across the length and breadth of our country.

SUBJECT/TOPIC ;CLASSIFICATION OF ELEMENTS...CLASS X

AGE LEVEL ;14-15 years.


 **Learning Objectives** :To learn about various scientists and their theories which finally led to discovery MODERN PERIODIC TABLE.


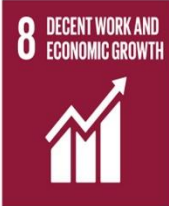
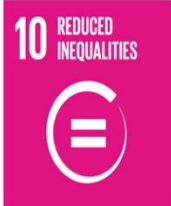


To deepen their ideas that elements discovered were to be arranged in proper table to study their properties more easily in comparison...and this was done by various scientists all across the world.


 **Inquiry** : Do you know how Modern periodic table was discovered?
Do you know who were the scientists behind the discovery of Modern periodic table?
Do you know where these scientists conducted their research?

 **Materials Needed** : BLACKBOARD,
SMARTBOARD, COMPUTER
 STUDENT'S INTERNET

<https://earth.google.com/earth/rpc/cc/drive?state=%7B%22ids%22%3A%5B%2213QNyMnuaLLz06iZrqBkhv412IOHaaSCE%22%5D%2C%22action%22%3A%22open%22%2C%22userId%22%3A%22114765617758184984334%22%7D&usp=sharing...LINK> **FOR EVOLUTION OF PERIODIC TABLE.**

 **Lesson Summary** :
To engage the students to learn the different theories of different scientists that led to evolution of Modern periodic table.
To explore the areas where all the scientists belong.
To explain different theories proposed by different scientists.
To revise the laws proposed by various scientists
To apply the knowledge and develop a research oriented mind for students.

   	<p>Culminating Task/Assessment</p> <p> 1.To make a chart on Modern periodic table for Science board.</p> <p>2.To make project on life history of any one of the scientists who were involved in evolution of Modern periodic law</p>

 TEXT BOOK CHAPTER: CLASS X..CHAPTER 5..CLASSIFICATION OF ELEMENTS

Engage (5 minutes)	
1. To ask students a question that would guide knowledge: have you ever seen hoe scientists in olden days used to carry out research wo	
Explore (25 minutes)	
1. Students will be asked to collect pictures of various scientists who helped in evolution of Modern periodic table.	
Explain (20 minutes)	

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| 1. Teachers facilitate whole group discussion in which students share their experience about Google earth voyager link shown. |
| 2. Students to share their experience of the google earth voyager link with other students. |
| 3. To explain the work of each scientist |

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| Revise (10 minutes) |
| 1. Students to make collage of scientists who helped evolution of Modern Periodic Table. |

Next, repeat the process with a second source of information.

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| Explore (25 minutes) |
| 1. Teachers introduce the different groups of students carrying different tasks under this topic and sharing of information would be carried out among these groups. |

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| Explain (20 minutes) |
| 1. Students to explain their strategies on their tasks given.
2. Teachers facilitate whole group discussion in which students share their hypotheses and evidence. |

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| Revise (10 minutes) |
| 1. Students will make adjustments to their hypothesis based on information gained in discussion or test findings. |

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| Apply (80 minutes) |
| 1. Students reflect on outcomes and tabulate their findings.
2. Students use findings to draw conclusions and generate a solution to a problem. |

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| Evaluate: Exemplar Response and/or Rubric |
| Teachers to evaluate students for their work based on rubric designed by teachers. |

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| Additional Resources |
| <ul style="list-style-type: none">• Links to texts or websites that relate to the topic ---various topics on GOOGLE EXPEDITIONS• UBUNTU...KALZIUM...a software that helps us understand Modern periodic table nicely. |

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| Options for Differentiation |
| <ul style="list-style-type: none">• Possible modifications, adaptations or extension activities specific to this lesson. |

