

## LESSON PLAN

Class : **IX**

Name of the Teacher : **SUNKARI RAMBABU**

Subject : **SOCIAL STUDIES**

School : **ZPHS, Garudabilli**

Name of the Lesson/ Unit	Topic	No. of Periods Required	Time line for teaching		Any specific Information
			From	To	
Our Earth	<ul style="list-style-type: none"> <li>Our Universe, the Sun and the Earth</li> </ul>	1	18/07/2022	18/07/2022	Geocentric theory Heliocentric theory Big Bang theory
	<ul style="list-style-type: none"> <li>Earth as a Planetary Body</li> </ul>	1	19/07/2022	19/07/2022	Greek word "eorthe" meaning 'ground, soil, dry land.
	<ul style="list-style-type: none"> <li>The evolution of the Earth</li> </ul>	1	20/07/2022	20/07/2022	Most scientists are of the view that Earth began to form around four and a half billion years ago.
	<ul style="list-style-type: none"> <li>Internal Structure of the Earth</li> </ul>	1	21/07/2022	21/07/2022	The earth is made up of three main layers 1. Crust 2. Mantle 3. Core
	<ul style="list-style-type: none"> <li>Movements of the Earth's crust</li> </ul>	1	22/07/2022	22/07/2022	Alfred Wagener introduced the theory of Continental drift
	<ul style="list-style-type: none"> <li>The Earth's grid system- Latitudes, Longitudes and Time calculation</li> </ul>	3	23/07/2022	26/07/2022	The network formed with latitudes and longitudes is called grid system.

**Prior Concepts / Skills:** Universe, Planets, Latitudes, longitudes, grid system etc.

**Learning Outcomes**

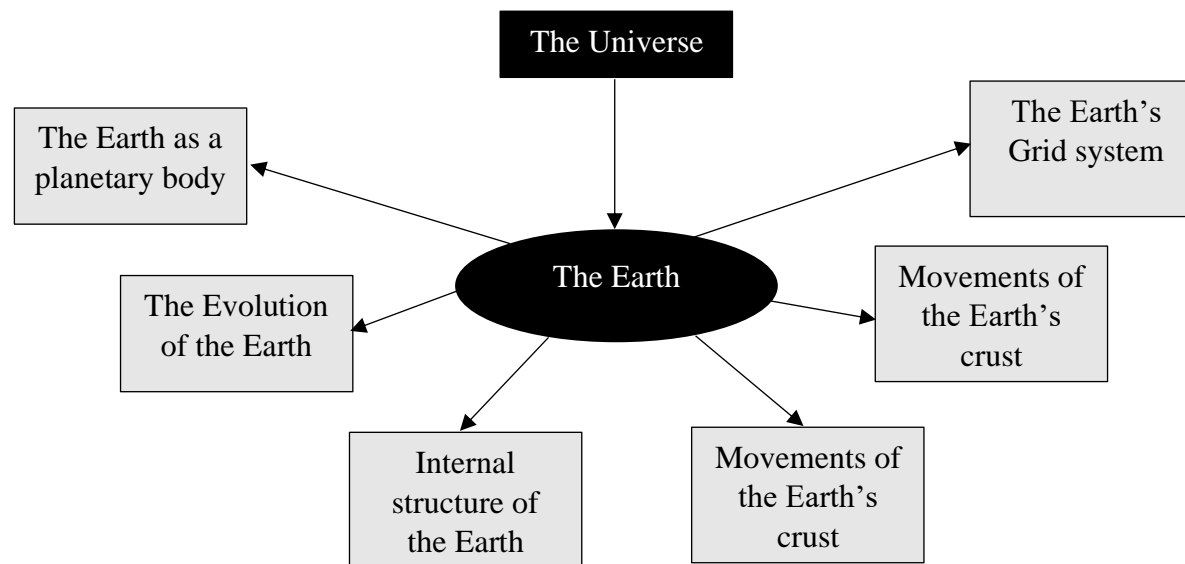
**No. of Periods**

- Understand the origin of the Universe.
- Understand the evolution and the internal structure of the Earth.
- Differentiate between latitudes and longitudes.
- Understand the movements of the Earth’s crust.
- Calculate time of a place based on the longitudes.

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**TEACHING LEARNING PROCESS**

**Induction / Introduction:**



We will learn about the above concepts through this lesson.

**Experience and Reflection:**

- What do you know about the Universe?
- What is meant by solar system?
- How many planets are there in the solar system?
- Which is the third planet from the Sun?
- What do know about the imaginary lines on the Earth?
- Say some line about the Earth?

<b>Explicit Teaching / Teacher Modelling (I Do)</b>	<b>Group Work (We Do)</b>	<b>Independent Work (You Do)</b>	<b>Check for Understanding Questions</b>	<b>TLM (Digital + Print)</b>
<ul style="list-style-type: none"><li>• Explain about the Universe, the Sun and the Earth.</li><li>• Explain the Universe by displaying a video which shows the big bang theory.</li><li>• Ask to collect additional information about universe as a group activity.</li><li>• Ask to read about solar system and planets in the previous classes.</li></ul>	<ul style="list-style-type: none"><li>• Collect additional information about the Universe as a group activity.</li></ul>	<ul style="list-style-type: none"><li>• Read about solar system and planets in the previous classes.</li></ul>	<ul style="list-style-type: none"><li>• What do you understand about the Universe?</li><li>• Explain the big bang theory?</li></ul>	Textbook – APSCERT  Big bang theory Video

Explicit Teaching / Teacher Modelling (I Do)	Group Work (We Do)	Independent Work (You Do)	Check for Understanding Questions	TLM (Digital + Print)
<ul style="list-style-type: none"> <li>Explain the Earth as a planetary body.</li> <li>Display the video related rotation of the Earth and revolution of the Earth.</li> <li>Organise group activity to understand the shape of orbit.</li> </ul>	<ul style="list-style-type: none"> <li>Participated in group activity related to shape of the Earth.</li> </ul>	<ul style="list-style-type: none"> <li>Watch the video related of the Earth and revolution of the Earth.</li> </ul>	<ul style="list-style-type: none"> <li>What is meant by orbit?</li> <li>What is the shape of the orbit?</li> <li>How much time takes for one Earth's revolution?</li> </ul>	Textbook – APSCERT Globe Earth rotation and revolution video
<ul style="list-style-type: none"> <li>Explain about <b>the evolution of the Earth.</b></li> <li>Display the video related to the evolution of the Earth and ask to write the observations.</li> </ul>		<ul style="list-style-type: none"> <li>Watch the video related to the evolution of the Earth and write the observations.</li> </ul>	<ul style="list-style-type: none"> <li>Say some sentences about the evolution of the Earth?</li> <li>What do you know about the origin of the earth?</li> </ul>	Textbook – APSCERT Globe video related to the evolution of the Earth
<ul style="list-style-type: none"> <li>Explain about the internal structure of the Earth.</li> <li>Display the video related to internal structure of the Earth.</li> <li>Ask to prepare a model of the internal structure of the Earth as a group activity.</li> <li>Ask to prepare a table with the information related to internal structure of the Earth.</li> </ul>	Prepare a model of the internal structure of the Earth as a group activity.	<ul style="list-style-type: none"> <li>Prepare a table with the information related to internal structure of the Earth.</li> </ul>	<ul style="list-style-type: none"> <li>What are three layers in the internal structure of the Earth?</li> </ul>	Textbook – APSCERT Globe video related to internal structure of the Earth

Explicit Teaching / Teacher Modelling (I Do)	Group Work (We Do)	Independent Work (You Do)	Check for Understanding Questions	TLM (Digital + Print)
<ul style="list-style-type: none"> <li>Explain and visualise the movements of the Earth's crust.</li> <li>Display the video related to the Continental drift theory.</li> </ul>		<ul style="list-style-type: none"> <li>Watch the video related to the continental drift theory and note down their observations.</li> </ul>	<ul style="list-style-type: none"> <li>Who proposed continental drift theory?</li> <li>Say a few sentences about continental drift theory?</li> </ul>	Textbook – APSCERT Globe World Map video related to the Continental drift theory.
<ul style="list-style-type: none"> <li>Explain about the grid system of the Earth.</li> <li>Demonstrate latitudes, longitudes and grid system on the Globe.</li> <li>Ask to prepare a model globe as a class room activity.</li> <li>Explain how to calculate time based on longitudes.</li> <li>Ask to calculate time for the places given in <b>Tease your brain! Activity</b> in this lesson.</li> </ul>	Prepare a model globe with latitudes, longitudes as a class room activity.	<ul style="list-style-type: none"> <li>Calculate the time for the places given in <b>Tease your brain! Activity</b> in this lesson.</li> </ul>	<ul style="list-style-type: none"> <li>What are the imaginary lines drawn on the Earth?</li> <li>What is meant by Grid system?</li> <li>What is the use of grid system?</li> <li>Which imaginary lines helps to determine the time of a place?</li> </ul>	Textbook – APSCERT Globe World Map PPT

**Student practice Questions & Activities:**

1. Write the latitudes and longitudes for the following places.

Kanyakumari \_\_\_\_\_ and \_\_\_\_\_  
Imphal \_\_\_\_\_ and \_\_\_\_\_  
Jaisalmer \_\_\_\_\_ and \_\_\_\_\_  
Pune \_\_\_\_\_ and \_\_\_\_\_  
Patna \_\_\_\_\_ and \_\_\_\_\_

2. Prepare a though provoking poster to protect Earth.

**Assessment:**

1. Why is it difficult to study the formation of the earth and its structure?
2. How can you say the earth is still very active?
3. What is a grid and how does it help us?
4. Differentiate between a. Local and Standard time b. Equator and Prime meridian.
5. If every state follows its local time, then what problems will rise?
6. What are the differences between latitudes and longitudes?
7. Draw a picture with prime latitudes of the Earth.

*Signature of the Teacher*

*Signature of the Headmaster*

*Visiting officer with remarks*