

# Lesson Plan

<b>Grade:</b> Five	<b>Subject:</b> Science	<b>Term:</b> 3 <sup>rd</sup>	<b>Time:</b> 40min
<b>Teacher's Name:</b> _____		<b>Week:</b> 5	<b>Day:</b> 1
<b>Chapter 9:</b> Space and Satellites		<b>Topic:</b> NASA and Its Role	

## Students Learning Outcomes:

**At the end of this period, the students will be able to:**

- Recognize the role of NASA (National Aeronautic and Space Administration) in space exploration.

## Resource Materials:

Chalk/marker, white/blackboard, Science textbook, Worksheet

## Warm-up Activities:

**5mins**

Before beginning the lesson, ask students to say "Tasmiya".

Ask them: What are the aims and objectives of space exploration? Wait for their responses.

## Teaching and Learning Activities:

**25mins**

- Write the topic name 'NASA and its role' on the board.
- Tell students NASA is an agency established by US to study space.
- Write abbreviation for NASA on the board; National Aeronautics and Space Administration.
- Tell students NASA has planned to travel in space. In 1969, first human landed on Moon.
- NASA made satellites to learn about Earth and other objects in space.
- NASA launched its first space station Skylab in 1973 to prove humans could live and work in space.
- Skylab kept on orbiting the Earth for about 24 weeks.
- ISS (International Space Station) is another achievement of NASA. It orbits Earth in every 90 minutes.
- It is a large space station which is formed by collaboration from Russia, Europe, Japan and Canada.
- It serves as science laboratory to learn more about living and working in space.

## Review:

**3mins**

Explain the main points about NASA and its role.

## Evaluation:

**5mins**

To check the understanding, ask them:

- What is NASA?
- What is the role of NASA?
- What is ISS?
- What is Skylab?

**Homework:**

**2mins**

Ask students to learn the topic. And solve the given worksheet.

## Worksheet

### Q1. Answer the following questions.

i) Differentiate between space and atmosphere.

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ii) Why we need to explore the space?

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iii) What is NASA?

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iv) What is the role of NASA in space technology?

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v) What is ISS?

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vi) What was skylab?

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# Lesson Plan

Grade: Five

Subject: Science

Term: 3<sup>rd</sup>

Time: 40min

Teacher's Name: \_\_\_\_\_

Week: 5

Day: 2

Chapter 9: Space and Satellites

Topic: Satellite, Natural Satellites

## Students Learning Outcomes:

At the end of this period, the students will be able to:

- Define the term satellite and describe its importance.
- Describe the natural satellites of the planets of the solar system.

## Resource Materials:

Chalk/marker, white/blackboard, Science textbook, Worksheet

## Warm-up Activities:

5mins

Before beginning the lesson, ask students to say "Tasmiya".

Ask them: What do you know about the role of NASA? Wait for their responses.

## Teaching and Learning Activities:

25mins

- Write the topic name 'Satellite, Natural satellites' on board.
- Tell the students today we will learn about the satellite.
- Tell students that satellite is a celestial object that revolves around a larger object in space.
- Now write 'Types of satellites' on the board.
- Tell students there are two types of satellites:
  - Natural satellites
  - Artificial satellites
- Tell them about one by one.
- Now write 'Natural satellites' on the board.
- An object moving around a huge heavenly body under the gravity is called a natural satellite.
- Moons are natural satellites and each planet has moons except Mercury and Venus.
- Draw a table on the board and tell students the number of moons for each planet.

## Review:

3mins

Explain the main points about the satellites and their types.

## Evaluation:

5mins

To check understanding of students, ask them:

- What are satellites?
- What are types of satellites?
- What are natural satellites?

## Homework:

2mins

Ask students to learn the topic. And solve the worksheet.

## Worksheet

Fill in the blanks.

1. Everything beyond the Earth is \_\_\_\_\_.
2. The \_\_\_\_\_ are sent in space to get images.
3. Satellites are of \_\_\_\_\_ types.
4. Planets are \_\_\_\_\_ satellites.
5. \_\_\_\_\_ and \_\_\_\_\_ have no natural satellites.
6. Earth has \_\_\_\_\_ number of natural satellites.
7. Spacecrafts that orbit Earth are \_\_\_\_\_.
8. The first satellite \_\_\_\_\_ was sent to space in October 1957.
9. Our Earth revolves around the \_\_\_\_\_.
10. Jupiter has \_\_\_\_\_ moons.

# Lesson Plan

<b>Grade:</b> Five	<b>Subject:</b> Science	<b>Term:</b> 3 <sup>rd</sup>	<b>Time:</b> 40min
<b>Teacher's Name:</b> _____		<b>Week:</b> 5	<b>Day:</b> 3
<b>Chapter 9:</b> Space and Satellites		<b>Topic:</b> Artificial satellites	

## Students Learning Outcomes:

**At the end of this period, the students will be able to:**

- Define artificial satellites and explain their importance in exploring the Earth and space.

## Resource Materials:

Chalk/marker, white/blackboard, Science textbook

## Warm-up Activities:

**5mins**

Before beginning the lesson, ask students to say "Tasmiya".

Ask them: What do you know about satellites and their types? Wait for their responses.

## Teaching and Learning Activities:

**25mins**

- Write the topic name 'Artificial satellites' on board.
- Tell students artificial satellites are man-made satellites sent to orbit the Earth.
- They are sent in space to collect information.
- They are used for communication, weather forecasting, to monitor changes in weather pattern, climate, etc.
- Tell them, an artificial satellite was launched from the earth by a rocket with specific speed and height.
- The first artificial satellite, Sputnik, 1, was launched in 1957 by Russia.
- Sputnik 2, launched in November 1957, carried the first living creature into orbit, a dog named laika.
- Ask the students to open their textbooks and read the contents

## Review:

**3mins**

Explain the main points about the Artificial Satellites.

## Evaluation:

**5mins**

To check understanding of students, ask them:

- What is artificial satellites?
- What are uses of artificial satellites?

## Homework:

**2mins**

Ask students to learn the topic.

# Lesson Plan

Grade: Five

Subject: Science

Term: 3<sup>rd</sup>

Time: 40min

Teacher's Name: \_\_\_\_\_

Week: 5

Day: 4

Chapter 8: Structure of the Earth

Topic: Revision

## Students Learning Outcomes:

At the end of this period, the students will be able to:

- Revise all the concepts of chapter 8.

## Resource Materials:

Science Textbook, Worksheet

## Teaching and Learning Activities:

10mins

- Before beginning the lesson, ask students to say "Tasmiya".
- Tell students today they are going to revise the chapter. So that they can easily prepare for exams.
- Ask students to revise the topics. Guide them if needed.
- Now arrange them, and distribute worksheet among them.
- Ask them to solve worksheet on time.

## Review:

10mins

Check students' worksheet and correct their mistakes.

## Evaluation:

0mins

N/A

## Homework:

0mins

N/A

**Q1. Answer the following questions.**

i) Why is soil important?

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ii) How can we check the moisture in soil?

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iii) Describe soil colour.

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iv) Which soil is best for plant growth and why?

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v) What is composition of soil?

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Fill the information.

**Sand**

Found in: \_\_\_\_\_

Texture in: \_\_\_\_\_

Colour in: \_\_\_\_\_

Water holding capacity in: \_\_\_\_\_

Sticky/Unsticky in: \_\_\_\_\_

**Clay**

Found in: \_\_\_\_\_

Texture in: \_\_\_\_\_

Colour in: \_\_\_\_\_

Water holding capacity in: \_\_\_\_\_

Sticky/Unsticky in: \_\_\_\_\_

**Silt**

Found in: \_\_\_\_\_

Texture in: \_\_\_\_\_

Colour in: \_\_\_\_\_

Water holding capacity in: \_\_\_\_\_

Sticky/Unsticky in: \_\_\_\_\_

How is mantle different from core?

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# Lesson Plan

Grade: Five

Subject: Science

Term: 3<sup>rd</sup>

Time: 40min

Teacher's Name: \_\_\_\_\_

Week: 5

Day: 5

Chapter 9: Space and Satellites

Topic: Revision

## Students Learning Outcomes:

At the end of this period, the students will be able to:

- Revise all the concepts of chapter 9.

## Resource Materials:

Science Textbook, Worksheet

## Teaching and Learning Activities:

30mins

- Before beginning the lesson, ask students to say "Tasmiya".
- Tell students today they are going to revise the chapter. So that they can easily prepare for exams.
- Ask students to revise the topics. Guide them if needed.
- Now arrange them, and distribute worksheet among them.
- Ask them to solve worksheet on time.

## Review:

10mins

Check students' worksheet and correct their mistakes.

## Evaluation:

0mins

N/A

## Homework:

0mins

N/A

## Worksheet

**Answer the following questions.**

Define space.

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What are the needs to explore the space?

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ISS stands for?

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Define satellites.

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What is the importance of artificial satellite?

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Differentiate between natural satellite and artificial satellite.

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