

# 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> 6	<b>Day:</b> 1
<b>Chapter 9:</b> Space and Satellites		<b>Topic:</b> Geostationary Satellites	

## Objective(s):

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

- Describe the uses of various satellites in space i.e. geostationary, weather, communication and Global Positioning System (GPS).

## 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 communication satellites? What do you know about weather satellites? Wait for their responses.

## Teaching and Learning Activities:

**25mins**

- Write the topic name 'Geostationary satellites' on the board.
- Tell the students today we will learn about geostationary satellites.
- Tell students geostationary satellites orbit the Earth at the same speed as the spinning of Earth.
- When viewed from earth, they are appearing to be at fixed point in space. They orbit earth from west to east over equator at a height of 36000 km.
- They move with Earth's spinning. That's why they appear to be stationary.
- They are used for telecommunication.

## Review:

**3mins**

Explain the main points about geostationary satellites.

## Evaluation:

**5mins**

To check the understanding of students, ask them:

- What are geostationary satellites?
- What are the uses of geostationary satellites?

## Homework:

**2mins**

Ask students to learn the topic.

# 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> 6	<b>Day:</b> 2
<b>Chapter 9:</b> Space and Satellites		<b>Topic:</b> Global Positioning System (GPS)	

## Objective(s):

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

- Describe the uses of various satellites in space i.e. geostationary, weather, communication and global positioning system (GPS).

## 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 geostationary satellites? Wait for their responses.

## Teaching and Learning Activities:

**30mins**

- Write the topic name 'Global Positioning System (GPS)' on the board.
- Tell students today we will learn about GPS.
- Tell students in 1960s United States launched a Global Positioning System (GPS) satellite.
- A global positioning system is a network of satellites and receiving devices used to determine the location of something on Earth.
- Position of stars in the sky has been of paramount importance for the travelers to find their way at night, right since the creation of humans.
- Now we can use GPS on devices such as cell phones for this purpose.
- There are more than 30 satellites orbiting the earth.

## Review:

**0mins**

Explain the main points about Global positioning system (GPS).

## Evaluation:

**5mins**

To check the understanding of students, ask them:

- What are the purposes of GPS?

## Homework:

**5mins**

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

## Worksheet

### Q1. Answer the following questions.

- i. Describe three uses of geostationary satellites.

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- ii. What are the geostationary satellites?

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- iii. How many communication satellites orbit the Earth?

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- iv. What are the uses of GPS?

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- v. What do you know about GPS?

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# Lesson Plan

Grade: Five

Subject: Science

Term: 3<sup>rd</sup>

Time: 40min

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

Week: 6

Day: 3

Chapter 9: Space and Satellites

Topic: Uses of Satellites

## Objective(s):

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

- Describe the uses of various satellites in space i.e. geostationary, weather, communication and global positioning system (GPS).

## 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 GPS? Wait for their responses.

## Teaching and Learning Activities:

25mins

- Write the topic name 'Uses of Satellites' on the board.
- Tell students there are various uses of satellites. They are used for communication, monitoring weather and climate, etc.
- Now write 'Communication satellites' on the board.
- Tell students communication satellites are used for communication between different parts of the Earth. It has two main parts. Receiver that receives information and transmitter that sends signals.
- Now write 'Weather satellites' on the board.
- Tell students weather satellites are used to monitor and predict weather.

## Review:

3mins

Explain the main points about uses of satellites.

## Evaluation:

5mins

To check the understanding of students, ask them:

- What are weather satellites?
- What are communication satellites?
- What are the uses of 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: 6

Day: 4

Chapter 9: Space and Satellites

Topic: Key Milestones

## Objective(s):

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

- Recognize the key milestones in space technology.

## Resource Materials:

Chalk/marker, white/blackboard, Science Textbook

## Warm-up Activities

5mins

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

Ask them: What are the uses of satellites? Wait for their responses.

## Teaching and Learning Activities:

25mins

- Write the topic name 'Key milestones' on the board.
- Tell students about a few milestones of space.
- **First human to orbit Earth:** The first human that orbited the Earth was Yuri Gagarin in 12th April 1961. Write the details on the board.
- **First step on Moon:** The first human to step on the Moon were Neil Armstrong and Edwin Aldrin on 20th July 1969 and write it on the board.
- **First images of other planets:** A series of spacecraft, Mariner, was sent near different planets-such as Mercury, Venus, Mars-to observe their temperature, atmosphere, etc. Mariner 4 took first pictures of Mars on 14th July 1965 and write it on the board.
- Ask students to search internet and make a chart of key milestones in space and present it to class. Let them respond. Check their work.

## Review:

3mins

Explain the main points about key milestones.

## Evaluation:

5mins

To check the understanding of students, ask them:

- Who was the first human to orbit the Earth?
- Who first step on Moon?
- What was Mariner?

## Homework:

2mins

Ask students to learn the topic.



# 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> 6	<b>Day:</b> 5
<b>Chapter 9:</b> Space and Satellites		<b>Topic:</b> Exercise	

## Objective(s):

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

- Solve Exercise

## Resource Materials:

Chalk/marker, white/blackboard, Science Textbook

## Teaching and Learning Activities:

**30mins**

- Before beginning the lesson, ask students to say "Tasmiya".
- Tell students they are going to solve the exercise of chapter 9.
- Briefly explain all topics and ask questions related to them. Wait for their responses.
- Ask students to open their textbooks and solve MCQ's. Help them in their work. Check their work.

## Review:

**0mins**

N/A

## Evaluation:

**5mins**

To evaluate the understanding of students, check their work.

## Homework:

**5mins**

Ask students to revise the exercise of chapter 9.