



**SUBJECT - SCIENCE  
COPY AND BOOK WORK  
CHAPTER - 5, GOING  
INTO SPACE**

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**GOING INTO SPACE**

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# **I. New words:**

**1) gravity**

**2) space**

**3) craters**

**4) potholes**

**5) travel**

**6) astronaut**

**7) spacesuit**

**8) oxygen**

**9) surface**

**10) vehicles**

## **II. Answer these:**

**1) What do astronauts do in space?**

**Ans: Astronauts perform scientific experiments. They also learn to eat, exercise while floating in the air. They also practice riding in special vehicles that are just for space.**

**2) When did Kalpana Chawla first go into space?**

**Ans: Kalpana Chawla went into space in the space shuttle Columbia in 1997. She was the first woman of Indian origin to go into space.**

**3) What is force of gravity?**

**Ans: The force that attracts a body towards the centre of the Earth is called force of gravity.**



#### **4) What is space rocket?**

**Ans: A space rocket is a vehicle with a very powerful jet engine designed to carry people or equipment beyond Earth and out into space.**

#### **5) Who is Sunita Williams?**

**Ans: Sunita Williams is the second woman of Indian origin to go into space.**

#### **6) How are spacesuits of astronauts helpful?**

**Ans: Spacesuits give astronauts oxygen to breathe while they are working in space. It protects them from harmful rays and injuries.**

### **III. Define**

**a) Craters- Large holes present on the surface of the Moon are called craters.**

**b) Astronaut – A person who travels and works in a spacecraft.**

### **IV. Give reason why**

**1) Earth pulls everything towards its centre-**

**Earth pulls everything towards its centre because of the gravitational force.**

## **2) There is no life on the Moon -**

**There is no life on the Moon because of the absence of atmosphere and water on it. Due to the absence of atmosphere, there is no weather, wind, clouds, rain and water on the Moon.**

## **3) The weight of an object is less on the Moon than on Earth-**

**The weight of an object is the gravitational force acting on it. Since, the gravitational force of the Moon is one-sixth of the Earth. The weight of an object on Moon is also one-sixth as compared to its weight on Earth.**



# Going into Space

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## Get started!

How would you go from

1. your house to your neighbour's house? by walking
2. your house to your school? by bus
3. your city to a nearby city? by bus / train / car
4. your country to a far-off country? by aeroplane
5. the earth to the moon? by rocket

## CHECKPOINT



## ENRICHMENT ACTIVITY

Circle the correct answers.

1. If you throw an object up in the air, it will ( disappear / stay in the air / fall back to the ground ).
2. Man first landed on the moon in the year ( 1699 / 1969 / 1996 ).

## Read and ANSWER



### A. Tick (✓) the correct answers.

- Beyond the layer of the air surrounding the earth is  
a. soil.                       b. space.                       c. water.
- They were the other two astronauts who travelled in the spacecraft with Neil Armstrong.  
a. Edwin Aldrin and Kalpana Chawla   
b. Michael Collins and Sunita Williams   
c. Edwin Aldrin and Michael Collins
- Astronauts wear special suits that contain a supply of  
a. petrol.                       b. water.                       c. oxygen.
- Kalpana Chawla died when she was  
a. going into space.                       c. in space.   
b. returning from space.
- If your weight on the moon is 7 kg, on earth it will be  
a. 41 kg.                       b. 42 kg.                       c. 43 kg.



### C. Think and answer.

HOTS



Hasan, Harjit, Mary and Deepa got a chance to go to the moon.  
How much would they weigh on the moon? Complete the table.

NAME	WEIGHT ON EARTH	WEIGHT ON MOON
Hasan	24 kg	<u>4</u> kg
Harjit	30 kg	<u>5</u> kg
Mary and Deepa	18 kg each	<u>3</u> kg each





# WORKSHEET 1

## GOING INTO SPACE

### A. Fill in the blanks.

1. The earth is surrounded by air
2. A space rocket puts a spacecraft into space.
3. There is no air or water on the moon.
4. If you weigh 18 kg on earth, you will weigh 3 kg on the moon.

### B. Match the columns.

- |                    |   |
|--------------------|---|
| 1. Rakesh Sharma   | a. first person to step on the moon (3) |
| 2. Apollo 11       | b. went twice into space (4)            |
| 3. Neil Armstrong  | c. first Indian to go into space (1)    |
| 4. Kalpana Chawla  | d. space shuttle (6)                    |
| 5. Sunita Williams | e. spacecraft (2)                       |
| 6. Columbia        | f. 195 days in space (5)                |

# WORKSHEET 2

## GOING INTO SPACE

### A. Name the following.

1. The spacecraft in which man went to the moon for the first time Apollo 11
2. The first woman of Indian origin to go into space Kalpana Chawla
3. The first man to land on the moon Neil Armstrong
4. This helps us to get out of earth's pull into space Space rocket

### B. Fill in the blanks.

1. The pull of the earth is called gravity
2. Man went to the moon for the first time in the year 1969
3. Astronauts wear special suits that contain a supply of oxygen
4. Kalpana Chawla went into space in the space shuttle Columbia