

STRONG TOWER ACADEMY

Whatzapp

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WEEK: Five

CLASS: JSS ONE

SUBJECT: BASIC SCIENCE

SPACE TRAVEL

SPACE

Space is the place or region beyond the earth's atmosphere.

SPACE TRAVEL

Space travel is a scientific journey to places beyond the earth's atmosphere.

It can also be defined as going into space (the moon, other planets orbiting the earth) in a spaceship or space shuttle.

Space is empty or void; it does not allow sound to pass through; therefore, it's always quiet. There is no force of gravity in outer space.

The first space travel took place on 12th April, 1961 when Russian scientist Yuri Gagarin travelled to the moon.

PURPOSE OF SPACE TRAVEL

Generally, scientists travel to space to gather more information about the solar system. The purposes of space travel include:

- to gather more information about the solar system
- to obtain knowledge about space temperature
- to get awareness about type of radiation, the limit of the earth's atmosphere
- to determine the extent of the magnetic fields of the sun and the earth
- to secure radio and television links.

PROBLEMS OF SPACE TRAVEL

1. The force of gravity: this makes it difficult for any spaceship to escape the earth's surface easily
2. Weightlessness: In space, there is weightlessness. Objects not tied to the spaceship will float and this makes it impossible for the astronauts not to use their spoons to eat or cups to drink. Also, astronauts who go into space have difficulty to stand or walk as they

do on earth. They require special equipments or trainings to adjust to the conditions of weightlessness.

3. High Speed: Astronauts have to be trained in order to adapt to the high speed of space travel

DANGERS OF SPACE TRAVEL

1. Explosion of rockets at the launch pad
2. Explosion of rockets in flight
3. Wrong calculation of angle, speed and time of launching
4. Failure of some necessary equipments in the spaceship to function well