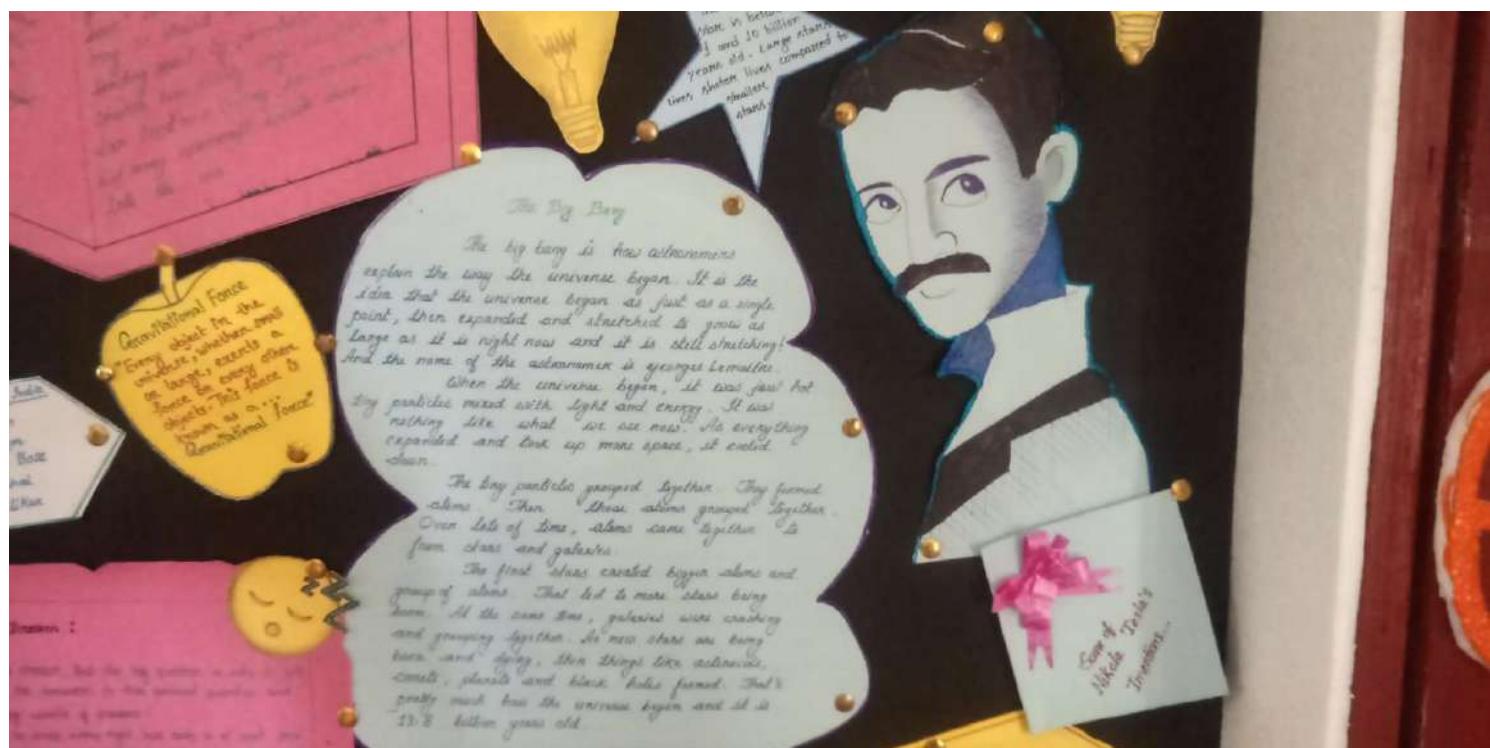


ORION

DEPT OF PHYSICS





Hubble Telescope

Hubble space telescope is about the size of a large school bus. It weighs 24,500 pounds. It's fast under two adult male African bush elephants.

Hubble gathers energy from the sun every day 25 feet solar panels. It requires much less power than one night shirt, averaging 2,000 watts of power usage. A hair dryer requires about 1,100 watts.

Hubble orbits the earth at a crossing speed of 17,000 miles per hour, and takes 95 minutes to rotate 360 degrees. Astronomers using Hubble data have published more than 13,000 journal articles, making it one of the most productive scientific instruments ever.

What is Physics?

Physics is a branch of science that deals with the movement of matter and how the gravitational forces rule the universe internally.

How does a space capsule
take off and land

Q. What's the difference
between physics and
chemistry?

ORION

Orion is a prehistoric constellation on the celestial equator. It's also called "the Hunter". In the night sky, Orion is the second brightest star.

Lightbulb

How does rainbow form

Sometimes after rain we see rainbow in the sky and it looks spectacular, doesn't it ?

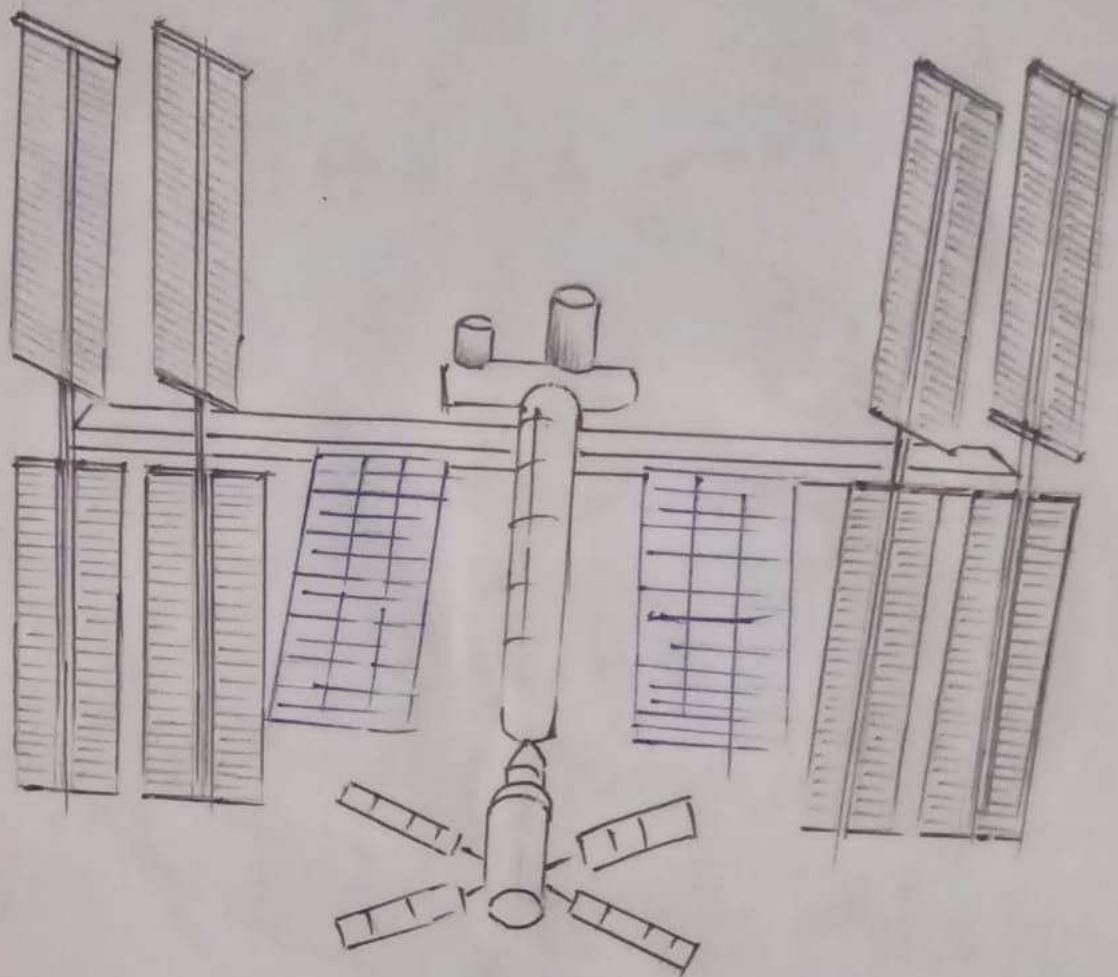
Do we all know how a rainbow is formed ?

A rainbow is formed due to the phenomena of "dispersion of light".

When a glass prism is placed in the path of a narrow beam of white light, it gets dispersed into its seven colours at different angles. All these colours are arranged according to their wavelengths. The colours are. Violet, Indigo, Blue, Green, Yellow, Orange and Red from down to up. This shows that white colour is a pack of seven colours. This phenomenon is first described by Sir Issac Newton.

A rainbow is generally formed when the sun appears just after it has rained. At this time many water droplets are present at the air, when the sunlight passes through water droplets in the atmosphere each water droplet acts like a small prism and refracts the sunlight as soon as the sunlight enters into the prism that is the water droplets it splits into its constituent 7 colours VIBGYOR within the drop when this band strikes the other edge of the drop it gets reflected internally towards the 1st edge of the drop and reaches the 1st edge it gets refracted again and finally comes out of the raindrop. this band of colours which finally comes out of the raindrop which we see as rainbow. A rainbow is always formed in the opposite direction of sun. Thus the appearance of rainbow in the sky is due to the dispersion of sunlight by the water droplets present at the atmosphere.

International space Station



Station Statistics:

Launch : 20 November 1998.

Mass : 444,615 Kg

Length : 73.0 m (239.4 ft)

Width : 109.0 m (357.5 ft)

Orbital speed : 7.66 Km/s (27600 Km/h)

Orbital period : 92.68 minutes

Orbits per day : 15.49

International Space Station (ISS)

The International Space Station (ISS) is a modular space station "habitable artificial satellite" in low Earth orbit. It is a multinational collaborative project involving five participating space agencies: NASA (United States), Roscosmos (Russia), JAXA (Japan), ESA (Europe) and CSA (Canada). The station serves as a microgravity and space environment research laboratory in which scientific research is conducted in astrophysics, astronomy, meteorology, physics and other fields.

The ISS is suited for testing the spacecraft systems and equipment required for possible future long duration mission to the Moon and Mars.

Waves

Waves are a pattern of motion that transfer energy from place to place without transferring matter.

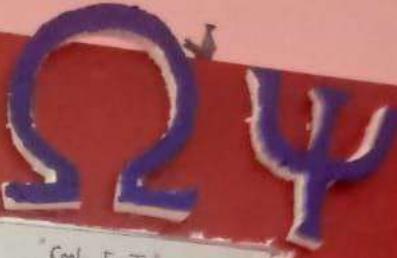


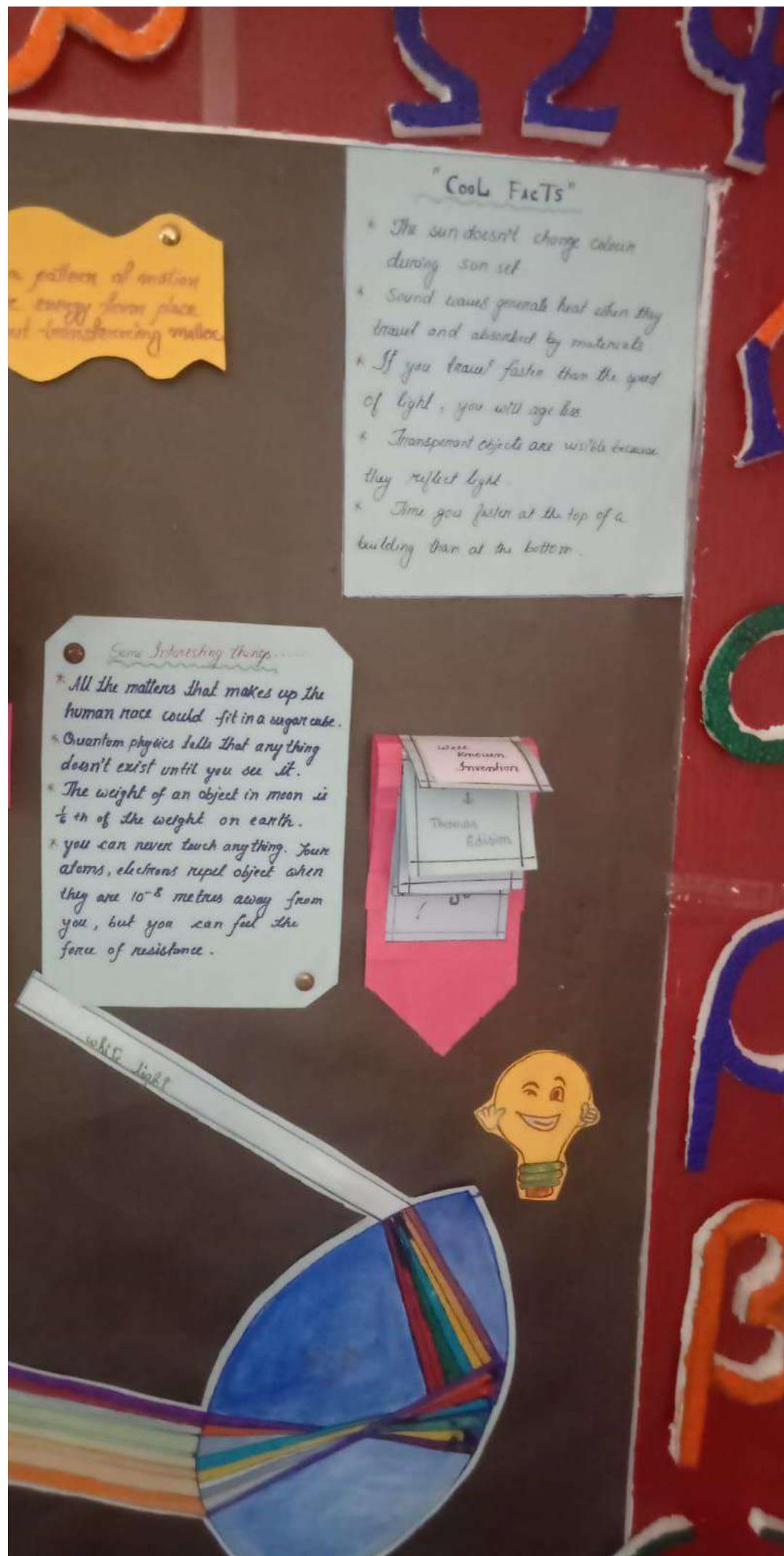
Some Interesting Facts

- All the matter that makes up the human race could fit in a sugar cube.
- Quantum physics tells that anything doesn't exist until you see it.
- The weight of an object in moon is 1/6 of its weight on earth.
- you can never touch anything. Your atoms, electrons repel each other when they are 10^{-8} meters away from you, but you can feel the force of resistance.

"Cool Facts"

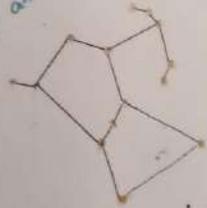
- The sun doesn't change colour during sunset
- Sound cannot travel back when they travel and absorbed by materials
- If you travel faster than the speed of light, you will age less
- Transparent objects are white because they reflect light
- Does your phone at the top of a building have at the bottom





ORION

Orion is a prominent constellation located on the celestial equator and visible throughout the world. It is one of the most conspicuous and recognizable constellations in the night sky. It is named after Orion, a hunter in Greek mythology. Its brightest stars are blue-white Rigel and red Betelgeuse.



The average
between

How X-ray machine works

The machine emits a heavy and concentrated beam of electrons called x-ray photons. The photons travel through the mass until they hit the body and its tissue can produce an image in a metal film. The beam by energy rays convert to chemicals by soft

atoms that are also used



Hubble Telescope



Hubble space telescope is about the size of a large school bus. It weighs 24500 pounds. That's just under two adult male African bush elephants.

Hubble gathers energy from the sun using two 25 foot solar panels. It requires much less power than one might think, averaging 2100 watts of power usage. A hair dryer requires about 1800 watts.

Hubble orbits the earth at a cruising speed of 17000 miles per hour, and takes 15 minutes to rotate 90 degrees.

Astronomers using hubble data have published more than 13,000 journal articles, making it one of the most productive scientific instrument ever.