

## Astronomy Space Club

Date 16<sup>th</sup> October 24

### Session 6 : Directions in Daytime: Finding Cardinal directions & Project Paridhi: Measuring Earth's Circumference

#### Time, Sundials & Creating Sundials

Students of Space Club attended a session on the topic Directions in Daytime: Finding Cardinal directions and Project Paridhi: Measuring Earth's Circumference and Time, Sundials and Creating Sundials. The session started with the introduction of Understanding the difference between reference and cardinal directions, analysing importance of different methods to locate cardinal directions, using gnomon and sun to mark cardinal directions. They also understood how scientific pursuits can be done by simple experimentation and also recreate the Eratosthenes experiment and calculate the circumference of the Earth. They learnt how to conduct Project Paridhi for science popularization.

Students learnt how to establish importance of time as a physical measurement, understanding the difference between local time and IST, finding local time using a sundial. They also learnt how to deduce IST using local time, basics of equation of time. They were able to understand the working of a sundial and its importance in history and mathematics. They also created a sundial using simple materials to find time.

The session allowed students to indulge in a myriad activity which fostered their scientific knowledge.

