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Product Name :

The Model of The Celestial Sphere (for high school)

Product Code :

SCL282/046



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Description :

The Model of The Celestial Sphere (for high school) (Product Code: SCL282/046) is a 300mm transparent celestial globe on a gyroscopic support, with a small Earth shown at its centre.The main reference circles, the celestial equator and the celestial meridians, are marked on the sphere, together with an equatorial or horizontal plane, so students can see how astronomers locate stars on the sky as seen from Earth. This item of astronomy lab equipment ismanufactured in India by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Type	Model of the celestial sphere
Model diameter	300 mm
Globe	Transparent celestial globe with the Earth indicated inside
Reference circles	Celestial equator and celestial meridians
Reference plane	Equatorial or horizontal plane
Support	Gyroscopic

Typical Use

Because the globe is transparent, students can look through it from the Earth’s point of view and relate what they see on the model to the real sky. Turning the sphere on its support shows the apparent daily rotation of the heavens: stars near the celestial pole circle without setting, while those near the celestial equator rise and set. The marked equator and meridians give a concrete picture of declination and right ascension, the sky’s equivalents of latitude and longitude.

With the horizontal plane set for the school’s own latitude, the teacher can show why the pole star stands at the same height above the horizon as the observer’s latitude, and why the Sun’s path changes through the year. The model links geography lessons on the Earth’s axis with physics and astronomy club work, and it pairs naturally with geography models such as globes and planetaria. Dust it with a soft dry cloth and store it covered to keep the transparent sphere clear.

Manufacturer

Jain Scientific Equipments Private Limited, an educational equipment manufacturer based in Ambala, Haryana, produces this celestial sphere model and sells it under its ScienceLab brand to schools in India and international markets. Find out more on the company profile.

Related Lab Equipment

These items support astronomy and Earth-and-sky lessons:

- Celestial Star Globe — shows the constellations that the sphere’s coordinates describe.
- Earth Globe Model — compares terrestrial latitude and longitude with celestial coordinates.

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