



विज्ञान प्रज्ञा

(विज्ञान के प्रचार एवं शोध के लिए स्थापित गैर-लाभकारी संस्था)

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VIGYAN PRAGYA

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GROOM THE SCIENTIST IN YOU / YOUR CHILD

CULTIVATE THE SKILLS OF “OBSERVING”, “EXPERIMENTING” & “THINKING ORIGINALLY” LIKE A SCIENTIST

MODULE: EXPERIMENTS IN ASTRONOMICAL GEOGRAPHY

LEARNING GROUP: SECONDARY (GRADE 6 TO 8)

No age bar for other learners

DATES: 9th and 10th May, 2020 (Saturday – Sunday)

Topics covered	After this module, the learner will be able to	Credits/ Certification	Learning Schedule & Requirements
<ol style="list-style-type: none"> 1. Properties of triangles, circles and spheres 2. Latitudes and Longitudes 3. Angles of Inclination and Declination 4. Formation & Properties of Shadow 5. Insolation 6. Dynamics of earth's motions 7. Ecliptic and the Axial Tilt 8. Cause of Seasons 9. Aphelion, Perihelion, Equinox and Solstice 10. Three main Climate zones 11. Date and Time Conventions 12. Way to the next module 	<ol style="list-style-type: none"> 1. Find the coordinate (latitude) of one's place on earth using Sun and other stars 2. Find the Longitude of one's place on earth using the method of John Harrison (who invented this method on the call of British Parliament) 3. Demonstrate the use of "shadows" in determining the heights and distances of tall or far-away objects 4. Estimate the circumference of Earth 5. Calculate the distance between two cities 6. Demonstrate the effect of "intensity of sun rays" 7. Demonstrate the apparent movement of Earth's axis while revolving around the sun 8. Explain the cause of change in Seasons on Earth and change in duration of days and nights 9. Easily convert the times between UTC, IST and GMT 10. Tell his/her future line of thought on the topic 	<ol style="list-style-type: none"> 1. VIPRA Certificate upon scoring 75% or more in the Assessment. Outstanding candidate (<14 years age), if any, will be awarded Sub-Junior Geo Champ title. 2. Discount on next level module in Astronomical Geography 3. Participation Certificate to rest of the candidates 4. Continued Assessment: VIPRA assesses its Learners throughout the year. The best in each Group (P/S/A) in each year are awarded VIPRA budding Scientist title, which carries a host of privileges. 	<p>Duration: 4 hours</p> <p>Schedule: 2 hours on each weekend</p> <p>Mode: Online</p> <p>Module Charges: Rs 500 per learner</p> <p>Click here to Register and Pay</p> <p>For queries, write to admin@vipraa.org</p>