विज्ञान प्रज्ञा

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

वेब साइट: www.vipraa.org

ई-मेल: admin@vipraa.org

मो: ८५८७८२१५८२

VIGYAN PRAGYA

(An institute to popularize and conduct research in Science)

website: www.vipraa.org

email: admin@vipraa.org

Mob: 8587821582

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: PRIMARY (GRADE 3 TO 5)

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**
1. Introduction to Map and Globe 2. Lines, Arcs, Angles and Planes 3. Circle and Sphere: difference between a 2D circle and a 3D sphere 4. Coordinates and Reference Frames 5. Equator and Poles 6. Introduction to Solar System 7. Force of Gravity 8. Earth's rotation and Revolution 9. Day, Night and Year 10. Formation & Properties of Shadow 11. Way to the next module	1. Create a 3D model of Earth (with axis) and specify its major reference coordinates (**Nature Designer**) 2. Apply Perpendicular Orientation and place the Lilliputians at various places on earth (**Play Gulliver**) 3. Tell why ocean water does not *fall off* the earth (**Gravity Magic**) 4. Calculate the height of a building or a tree (**Civil Engineer**) 5. Have fun & experiment with circles and spheres: (i) rotating circle becomes a sphere; (ii) ride at equator is more thrilling than at poles; (iii) ceiling light experiment (**Fun with Geometry**) 6. Make a shadow long, short or even disappear (**Fun with shadows**) 7. Tell the exact direction of true North (**Navigator/ दिक्पाल**) 8. Tell the importance of Reference Frames, Time duration and Relative motion (**Navigator/ दिक्पाल**) 9. Tell the effects of earth's rotation and revolution 10. Tell his/her future line of thought on the topic	1. VIPRA **Certificate** upon scoring 75% or more in the Assessment. Outstanding candidate (<11 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.	**Duration:** 4 hours **Schedule:** 2 hours on each weekend **Mode:** Online **Module Charges:** Rs 500 per learner Click here to **Register and Pay** For queries, write to admin@vipraa.org