

Worksheet

1. Class : **Grade 8** Subject: **Science** Relevant week : **2nd week of November**
2. Unit : **14** Phenomena and exploration associated with the solar system
3. Tasks to be done by the student:

Do the following activity

Materials required- Styrofoam balls of suitable sizes to represent planets, Suitable paints in given colours to apply on Styrofoam balls, Wooden strip to the length of 75 cm, Black thread, Glue, Small Styrofoam sheet

Method- Select Styrofoam balls to sizes given below and paint them with colours indicated.

Object	Diameter of the ball	Colour
Sun	15 cm	Yellow
Mercury	1 cm	Orange
Venus	2 cm	Bluish green
Earth	2 cm	Dark blue
Mars	1.5 cm	Red
Jupiter	10 cm	Orange
Saturn	10 cm	Yellow
	Ring 12 cm	Orange
Uranus	5 cm	Light blue
Netune	4 cm	Dark blue

- Cut a ring for Saturn from the Styrofoam sheet
- When the paint is dry, ix balls to the wooden strip using glue
- Paint the wooden strip black
- Make the model as shown in figure 14.5
- Write the names of the planets

4. The books, websites, LMS lessons and other quality inputs (online, offline, printed) that can be refer for above activities are :

I. e -nenapiyasa:

- <https://www.enenapiyasa.lk/lms/mod/page/view.php?id=18368>

II. Youtube:

- <https://youtu.be/Mxllktyx-bk>

III. E-thaksalawa

- <https://www.ethaksalawa.moe.gov.lk/moodle/course/view.php?id=123&lang=si>

5. The learning outcomes that should be gain from the lessons relevant to this week :

- I. Construct various models to illustrate the solar planetary system
- II. Identify planets and stars by observing the night sky.
- III. Identify the differences of planets in solar system.

6. Evaluation / Assessment Methodology:

Name the planets with following features

- i. What is the smallest planet?
- ii. What is the largest planet?
- iii. What is the planet with living organisms?
- iv. What is the planet that suspected there is live on it?
- v. What is the planet with beautiful rings?
- vi. What is the planet with shortest rotation time?
- vii. What is the planet with highest rotation time?
- viii. What is the planet with shortest revolution time?
- ix. What is the planet with highest revolution time?
- x. What is the planet with highest number of sub planets?
- xi. What are the planets without sub planets?

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