

Activity name	Expected duration	Difficulty of the activity	Age of children for which the activity is suitable	Tools and material used	Objective of the activity
<b>Practical Exercise 1:</b>	1 lesson	medium	14 – 15 years	wooden metre, table or laboratory stand, tape measure	Introduction to the term parallax
<b>Practical Exercise 2:</b>	2 lessons	higher	12 – 14 years	tape measure, compass, drawing supplies, calculator	Introduction to methods of measuring distance in space
<b>Practical Exercise 3:</b>	1 lesson	medium	12 – 14 years	–	Introduction to scales for distances in the Solar System
<b>Practical Exercise 4:</b>	1 lesson	medium	12 – 14 years	–	Introduction to scales of planets in the Solar System

### **Practical Exercise 3: SCALES OF PLANET DISTANCES IN THE SOLAR SYSTEM**

Find out from suitable sources (textbooks, tables, the internet) the mean distances of the planets from the Sun and create a model in the selected scale. For execution outdoors, in the vicinity of the school, it is possible to choose a scale of 1 au = 1 metre, for execution in the classroom a scale of 1 au = 10 cm. Both options are in the table:

Planet	Distance from the Sun in au	Distance (1 au = 1 metre)	Distance (1 au = 10 cm)
Mercury			
Venus			
The Earth			
Mars			
Jupiter			
Saturn			

Uranus			
Neptune			

Try to create a simple model of the Solar System with classmates in the classroom or near your school - use a tape measure to measure distances according to the table and position yourselves at the same distances as those of the planets from the Sun. For this purpose it might be useful to calculate the distances of the planets from each other - Venus from Mercury, the Earth from Venus, etc.