



Solar System

Aim To simulate the motion of the Sun–Earth–Moon system

Materials 1 metre rule 1 stopwatch

Method With members representing the Sun, Earth and Moon, the team must move to simulate accurately their relative motion

Conditions

- The Sun–Earth distance is scaled down by $\sim 10^{10} = 10$ m
- The Earth–Moon distance is scaled down by $\sim 10^8 = 2$ m
- Time is speeded up such that 1 year \rightarrow 1 minute

Time limit 15 minutes to plan/practise followed by the judged motion

Ranking The ranking order will be determined by the accuracy of the team’s motion during a two “year” judging period

Team

Result

Do not write below line

Rank