

Solar Maths

Solar Maths is suitable for children in upper KS2. Children should have successfully completed Rainbow Maths before moving onto Solar Maths. Many of the skills required for Solar Maths are not taught until upper KS2.

All children begin on Pluto. There are two sheets for each solar level. The sheets are of the same level of 'difficulty' and cover the same skills. It is not intended that children must complete both A and B or need to alternate in any way. Familiarity with the questions and/or answers is not a problem since we are intending to support fluency.

Solar Maths will be completed once a week. The children have **6 minutes** to complete the sheet. To successfully complete a sheet, children should make **no more than 2 mistakes**. If a child makes more than 2 mistakes or does not complete the sheet they remain on the same solar level the following week. **Each solar level needs to be successfully completed twice.**


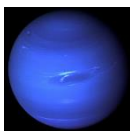

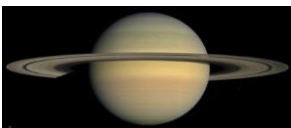








We **do not** expect pupils to successfully complete every worksheet every time. Rather children will work through the scheme at their own pace and may take several attempts to successfully complete a level.

All levels are of a similar style. The first column consists of questions that require fluency with times tables. The second column consists of questions that should be answered using mental methods. Columns three and four will generally have less questions to answer and may need some written working out.

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On successfully completing each level pupils will receive a corresponding certificate and their achievement celebrated in an assembly. Those pupils who reach the end of the Solar system will receive a solar system pencil and ruler.

The chart below outlines the skills/knowledge required to complete each level.

Pluto A/B		Mixed –using times tables Mental Skills Key Skills - Fractions
Neptune A/B		Mixed –using times tables Mental Skills Key Skills – Time/Multiplication
Uranus A/B		Mixed –using times tables Mental Skills Key Skills – Fractions/BIDMAS
Saturn A/B		Mixed –using times tables Mental Skills Key Skills – Place Value/Addition/Subtraction
Jupiter A/B		Mixed –using times tables Mental Skills Key Skills - Fractions
Mars A/B		Mixed –using times tables Mental Skills Key Skills – Time/Negative numbers
Earth A/B		Mixed –using times tables Mental Skills Key Skills – Number properties/Division
Venus A/B		Mixed –using times tables Mental Skills Key Skills – Angles/4 operations
Mercury A/B		Mixed –using times tables Mental Skills Key Skills – Converting FDP/Area, Perimeter, Volume
Sun A/B		Mixed –using times tables Mental Skills Key Skills – Converting units/Substitution
Moon A/B		Mixed –using times tables Mental Skills Key Skills – Fractions/Mixed
Milky Way A/B		Mixed –using times tables Mental Skills Key Skills - Mixed