

Lesson Plan

NEUROHEADWAY

Neuroscience Into Education

The Solar System for Key Stage 2 (4 x 1hr lessons)

KS2 Ages 7 – 11

Overall aims and learning outcomes for 4 linked lessons

- Basic guide to the planets and rocky asteroids of the solar system: capture imagination with the best images available. Give sense of wonder of our solar system and the very different planets
- Learn the names, order and basic information about the planets
- Understand the inner rocky planets and outer gas and ice giants
- Understand there are a lot of small rocky planets (called dwarf planets) very far out in the solar system

Lesson 1: The Sun and Overview of the Solar System (1 hr lesson plan)

Resources:

- PowerPoint required
- Printout of the worksheets provided (black and white PDFs)
- Internet connection (optional)

Teacher slides: 1-7 (Lesson 1 Teacher Notes)

[10mins]

Overview of the solar system: Sun and the known 8 accepted planets of the solar system

Present the mnemonic to remember. Note the inner rocky planets and the outer gas giants and ice giants.

Activity 1: Worksheet on identifying the planets (Worksheet1a)

[10 mins]

Teacher slides: 9-11 (Lesson 1 Teacher Notes)

[10mins]

The Sun – what is it and fun facts.

Activity 2: Quiz worksheet (Worksheet1b)

[10 mins]

Teacher slides: Go over the answers.

[10 mins]

Extra activity if desired: what questions do the class have? Collect up to 5 questions. Tweet the questions to Professor Smartt, who will answer on twitter.

Can have the answers at the start of next lesson, or later in the School day (or next day).

Answers will be provided rapidly on twitter and teacher can chose.

The Solar System for Key Stage 2 (4 x 1hr lessons)

KS2 Ages 7 – 11

Overall aims and learning outcomes for 4 linked lessons

- Basic guide to the planets and rocky asteroids of the solar system : capture imagination with the best images available. Give sense of wonder of our solar system and the very different planets
- Learn the names, order and basic information about the planets
- Understand the inner rocky planets and outer gas and ice giants
- Understand there are a lot of small rocky planets (called dwarf planets) very far out in the solar system

Lesson 2: The inner rocky planets (1 hr lesson plan)

Resources:

- PowerPoint required
- Printout of the worksheets provided (black and white PDFs)
- Internet connection (optional)

Teacher Slides 1 - 4: On Slide 1 and 2 recap that we are going to focus on the 4 inner rocky planets (Mercury, Venus, Earth and Mars), and then start with the first two (Mercury and Venus). Highlight some of the interesting and weird

Activity 1: Worksheet 2a things about these two hot planets.

[10 mins]

Teacher Slides 5 - 8: The Earth and Mars

[10 mins]

Activity 2: Worksheet Quiz **Worksheet 2b**

[10 mins]

Teacher slides: 9 - 10 Go over the answers

[5-10 mins]

Extra activity if needed: what questions do the class have? Collect up to 5 questions. Tweet the questions to Professor Smartt, who will answer on twitter.