

Bee Ready!

Let's Fly through the Solar System

1. METHODOLOGY

The work in this unit examines the characteristics of the Earth and the Solar System. Students learn to identify the main components of the Solar System: the Sun and the planets that orbit it. They also study other celestial bodies, such as asteroids, meteorites and comets. We see how the Earth's revolution causes day and night and how its rotation produces the four seasons. We also study the Moon's movements and the lunar phases.

Solar system is going to be the first unit as a presentation of living things in the Universe. We are going to introduce our pet: Bee Bob which loves travelling and discovering many places and interesting facts about human beings or simply life information. On its first journey, it discovered new friends, who are very wise and once every unit they explain really interesting things.

<http://bit.ly/18GTdyC>

2. TIMING

This unit corresponds to the first month and a half of the first session term. It has an estimated duration of about 6 days. Each session lasts 1h and 15 minutes. In this school we have the 5th Grade Science session in the first after break class, this means 30 minutes reading activities plus the 45 minutes Science class.

3. RESOURCES

In this unit we are going to work with some internet webs:

<http://bit.ly/18GeVmt> (CEIP Punta de n'Amer English Website II)

From the previous one we have all the links we need:

<http://www.sciencekids.co.nz/>

<http://www.makemegenius.com/>

<http://bit.ly/1aQ9Jvx> (Solar System Video)

<http://bit.ly/18IEaa4> (Earth Layers)

QUIZ



Bee Bob flies up to the Solar System

Do you want to know what the planets and the Sun think? Move on this story!

Bee Bob goes to the Solar System.pdf

Documento Adobe Acrobat [574.7 KB]

[Descarga](#)



Space Vocabulary

You are going to find some basic vocabulary with a brief explanation. Print it, cut it and start playing.

Match.pdf

Documento Adobe Acrobat [123.1 KB]

[Descarga](#)



Listening Activity

While you are watching the Solar System video, try to answer to these questions! It's not difficult! You can do it!

Planets Activity.pdf

Documento Adobe Acrobat [238.2 KB]

[Descarga](#)



Order these Pictures

Have you been watching carefully the video? Have you? Ok, not it's your turn! Print it and set them in order.

Order.pdf

Documento Adobe Acrobat [300.9 KB]

[Descarga](#)



Webquest

You in groups are going to be Space detectives! Use your laptops and find this information. It starts in 3, 2, 1... INDUCTION!

Extension Activities.pdf

Documento Adobe Acrobat [191.8 KB]

[Descarga](#)



Are you a Fast Finisher?

You got the 2nd Level! Good job my dear detectives! Job must go on!

Reinforcement.pdf

Documento Adobe Acrobat [268.1 KB]

[Descarga](#)



Solar System Exam

How much have you been participating in class? What about listening to stories and fun facts? Are you ready?

Exam.pdf

Documento Adobe Acrobat [505.3 KB]

[Descarga](#)

4. SYLLABUS

Objectives

- To locate the Earth in the Solar System and become familiar with the planets and other components of the Solar System.
- To understand some of the basic aspects involved in the Earth-Moon system.
- To differentiate between ways of representing the Earth's surface.
- To recognise the position of the equator, the parallels and the meridians.
- To identify values of longitude and latitude.

Evaluation criteria

- To name or identify the components of the Solar System in a schematic diagram.
- To recognise the Moon as a satellite of the Earth.
- To interpret the different ways of representing the Earth.
- To name the imaginary reference lines on the Earth's surface: the equator, parallels and meridians.
- To locate latitude and longitude values on a map with geographic coordinates.

Key competencies

- Knowledge and interaction with the physical world

Competence in linguistic communication

- Competence for learning to learn

Competence in linguistic communication

- Competence for learning to learn

Competence in linguistic communication

- Competence for learning to learn

Competence in linguistic communication

- Mathematical competence

Competence in linguistic communication

5. KEY COMPETENCIES

- Knowledge and interaction with the physical world: In this unit students are encouraged to make enquiries and acquire knowledge about the Earth and the Solar System. They learn to process this knowledge in different formats and apply it to different situations. They also learn how to calculate the latitude and longitude of geographical coordinates.
- Competence in linguistic communication: The unit encourages students to interact with their classmates and exchange opinions, facts and information. Students acquire

language that enables them to understand and describe the characteristics of the Earth and Solar System.

- Information processing and digital competence: Students apply systematic analysis and scientific investigation to the characteristics of the Earth and the Solar System. They use ICT to practise and improve their content knowledge. This also stimulates their capacity to understand and use digital information.
- Competence for learning to learn: The content and activities in the unit allow the students to understand the characteristics of the Earth and the Solar System. They build on their prior knowledge and experience to assimilate new information.
- Mathematical Competence: Students learn to calculate the latitude and longitude of geographical coordinates using mathematical skills.

6. CONTENTS

- The Solar System and its components.
- The Moon: orbit and rotation.
- The Earth's atmosphere: composition and layers.
- Representations of the Earth's surface.
- The equator, parallels and meridians.
- Latitude and longitude.
- Dialogues and pairwork.
- Indicating the relative positions of the planets using a diagram.
- Identifying the seasons.
- Labelling a picture of the geosphere.
- Interest in learning about the Solar System.
- Awareness of the relationship between the Earth and the Moon.
- Understanding of the composition of the Earth.
- Understanding of geographical differences.