

**The Solar System**

(KA4)

[**Littera**](http://littera.uhk.cz)

Zvýšení kvality jazykového vzdělávání v systému počátečního školstvíZačátek formuláře

Konec formuláře

**Tento materiál vznikl v rámci předmětu Metodika anglického jazyka 3**

**Autor: Vendula Koutská**

**Text neprošel jazykovou revizí.**

**CLIL LESSON**

**Topic**: SOLAR SYSTEM

**Class**: 5.

**Time**: 45 minutes

**Materials**: pictures for motivation, worksheet about solar system, worksheet with song, computer, conversation cards

**Aims**:

* Pupil is part of the conservation.
* Pupil makes the grammatically right sentence.
* Pupil reads the text with understanding. Find the information in text and give an answer.
* Pupil’s using dictionary for translation unknown words.
* Pupil’s work in groups.
* Pupil gets some new vocabulary from area of solar system.

|  |  |  |
| --- | --- | --- |
| **Time** | **Activities** | **Notes** |
| 2 min6 min10 min12 min8 min7 min | Greeting and telling about the aims of the lesson.* speak about space (universe, planets)
* get new vocabulary about our solar system, planets

Motivation with pictures projected on the board* teacher show two pictures of astronaut and the Earth
* children look at the picture and thinking about it for a short time
* teacher ask the children
* What you see in the picture?
* Imagine you are astronaut. How do you feel at the moment?
* Do you know something about universe?
* the child that has the ball speak
* if the pupil doesn’t know some word – find it in dictionary

C:\Users\Vendula\Desktop\s116e05968.jpgPicture 1.Picture 2.  Picture 3.C:\Users\Vendula\Desktop\1-bluemarble_west.jpgC:\Users\Vendula\Desktop\11572307115_1194957269_o_0.jpgWorking with text (reading – speaking – writing) * Pupils read the paragraph about our solar system. After, they should ask their partners questions so they can fill in the gaps in their text.

Planets* How many planets are in our solar system? (8)
* Do you know the names of any planets? (We can say it in Czech and then English because it’s very similar and pupils will listen it in next activity - song.)

Solar system song* <https://www.youtube.com/watch?v=mQrlgH97v94>
* listen and write down the missing words in text

Speaking * There is a planned mission to Mars in 2020. What three items do you put inside the spacecraft? Explain your choices.
* 1. part: everyone write 3 things
* 2. part: in group 3-4 people choice from all ideas 3 things
* Every group present their things and say why they should take just these objects.

Conversation cards* Working in groups
* Every group draw one or two cards, discuss about it and then write a short work about it.

The end of lesson | Aids: pictures (1,2,3), ballIn pairs.Worksheet for pair. *Attachment 1*Worksheet for everyone. *Attachment 2*In the first time working alone, than in groups. *Attachment 3* |

*Attachment 1*

*Worksheet*  **AMAZING SPACE**

We live on the **planet**. The name of this planet is **Earth**. First picture of Earth is from the very last expedition on moon in **1972**. The name of expedition is **Apollo 17**.

In the past, we could only look at the stars and planets through **telescopes**. Now, we have the **technology** to find out about these stars and planets more and we can send **astronauts** into space. The Earth is part of **solar** system. The solar system is named after the only star in this solar system. It is **sun**. The sun came into being before **4, 6 billion** years. After a time the solar system came into existence from lots of particles. Our solar system includes **8 planets**, **moons**, **minor planets**, **comets**, **meteoroids**, **dust particles** and **space dust**.

**Student A AMAZING SPACE**

We live on the **\_\_\_\_\_\_\_\_\_\_**. The name of this planet is Earth. First picture of Earth is from the very last expedition on moon in **\_\_\_\_\_\_**. The name of expedition is Apollo 17.

In the past, we could only look at the stars and planets through **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**. Now, we have the technology to find out about these stars and planets more and we can send **\_\_\_\_\_\_\_\_\_\_\_** into space. The Earth is part of solarsystem. The solar system is named after the only star in this solar system. It is **\_\_\_\_**. The sun came into being before 4, 6 billion years. After a time the solar system came into existence from lots of particles. Our solar system includes 8 planets, **\_\_\_\_\_\_\_**, minor planets, **\_\_\_\_\_\_\_\_\_\_**, meteoroids, dust particles and **\_\_\_\_\_\_\_\_\_\_\_\_**.

**Student B AMAZING SPACE**

We live on the planet. The name of this planet is **\_\_\_\_\_\_\_\_\_\_**. First picture of Earth is from the very last expedition on moon in 1972. The name of expedition is **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.

In the past, we could only look at the stars and planets through telescopes. Now, we have the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** to find out about these stars and planets more and we can send astronauts into space. The Earth is part of **\_\_\_\_\_\_\_\_** system. The solar system is named after the only star in this solar system. It is sun. The sun came into being before **\_\_\_\_\_\_\_\_\_\_\_\_\_\_** years. After a time the solar system came into existence from lots of particles. Our solar system includes \_\_\_\_\_\_\_\_\_\_\_**,** moons, **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**, comets, meteoroids, **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** and space dust.

**Sources**:

* Obr. 1: Constructing the Space Station. In: *NASA* [online]. 2006 [cit. 2018-03-28]. Dostupné z: <https://www.nasa.gov/multimedia/imagegallery/iotd.html>
* Obr. 2: Astronaut. *NASA* [online]. 2015 [cit. 2018-03-28]. Dostupné z: https://www.nasa.gov/sites/default/files/11572307115\_1194957269\_o\_0.jpg
* Obr. 3: Earth. *NASA* [online]. 2002 [cit. 2018-03-28]. Dostupné z: https://www.nasa.gov/sites/default/files/thumbnails/image/1-bluemarble\_west.jpg

*Attachment 2*

eight dust Mars smallest biggest planets Neptune atmosphere

life icy planets revolve Mercury Saturn icy chunks mountain

solar system sun Jupiter Uranus Venus Earth second furthest

*SOLAR SYSTEM SONG*

There are \_\_\_\_\_\_\_\_planets in our solar system

We all revolve around the \_\_\_\_\_\_

Join us to learn about the different \_\_\_\_\_\_\_\_\_\_\_

Now sing along and have some fun

My name is \_\_\_\_\_\_\_\_

I’m the second hottest planet

The closest one to the sun

A year on my surface is 88 days

I’m the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ but I’m lots of fun

My name is \_\_\_\_\_\_\_\_

I’m the hottest planet

But the \_\_\_\_\_\_\_\_ planet from the sun

I’m the brightest planet in our solar system

And I’m too hot for any one

My name is \_\_\_\_\_\_\_\_

I’m the planet you live on

The third planet from the sun

I’m the only planet with organic \_\_\_\_\_\_

So take care of me because we’re all one

My name is \_\_\_\_\_\_\_\_\_

I am red in colour

The fourth planet from the sun

I have the highest \_\_\_\_\_\_\_\_\_\_\_\_ in our solar system

A volcano named Olympus Mons

There are eight planets in our \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

We all \_\_\_\_\_\_\_\_ around the sun

Join us to learn about the different planets

Now sing along and have some fun

My name is \_\_\_\_\_\_\_\_\_\_ I am covered in clouds

I’m the fifth planet from the sun

My giant red spot is a raging storm

As for size I’m the \_\_\_\_\_\_\_\_\_\_ one

My name is \_\_\_\_\_\_\_\_ I am brown in colour

I’m the sixth planet from the sun

My outer rings are extremely thin

They’re made of \_\_\_\_\_\_ and \_\_\_\_ \_\_\_\_\_\_\_\_

My name is \_\_\_\_\_\_\_\_\_\_ I am blue in colour

I’m the seventh planet from the sun

Humans have named me the \_\_\_\_ \_\_\_\_\_\_\_\_

Because I am the coldest one

My name is \_\_\_\_\_\_\_\_\_\_ I am blue in colour

I’m the eighth planet from the sun

I have too many storms in my \_\_\_\_\_\_\_\_\_\_

And I’m the \_\_\_\_\_\_\_\_\_\_ planet from the sun

There are eight planets in our solar system

We all revolve around the sun

Join us to learn about the different planets

Now sing along and have some fun

*LETS TALK ABOUT SPACE* – *conversation cards*

When do you think people will visit Mars?

What do you think they will find there?

What is a satellite?

What are they used for?

How would life be different without them?

Name as many planets as you can in English.

Draw them in the correct position to the sun.

Do you think there is other life in the universe? What kind of life? What would aliens look like? Draw them.

Have you ever looked through a telescope?

What did you see?

Do you think we will ever communicate with intelligent aliens? When and how will this happen?

Will the Earth ever be visited by aliens? What would their space ships look like?

Draw a space ship.

Would it be a good idea to build a permanent base on the moon?

Why or why not?

Should we try to discover other planets and life forms?

Why or why not?

Would you like to be an astronaut?

Explain why or why not.

How and when was the universe created?

What was there before it existed? Discuss.

Do you think people will ever take holidays in space?

Describe how you think this will work.

What is the speed of light?

How is distance measured in the universe?

What is your favourite sci-fi movie or TV show?

Tell the plot.

How big is the universe?

How long would it take to travel to another galaxy?

Research and discuss.

Do you think governments spend too much or too little on space exploration?

Explain your view.

Should money be spent on space programmes while there is still so much poverty on Earth?

Explain your point of view.

What do you think the odds are of Earth being hit by a meteor?

Should we develop protection systems for this possibility?

**Sources**:

* Song and lyric: <https://www.youtube.com/watch?v=mQrlgH97v94>
* https://en.islcollective.com/resources/printables/worksheets\_doc\_docx/lets\_talk\_about\_space/questions-debate-lets/4116
* Obr. 1: Constructing the Space Station. In: *NASA* [online]. 2006 [cit. 2018-03-28]. Dostupné z: <https://www.nasa.gov/multimedia/imagegallery/iotd.html>
* Obr. 2: Astronaut. *NASA* [online]. 2015 [cit. 2018-03-28]. Dostupné z: https://www.nasa.gov/sites/default/files/11572307115\_1194957269\_o\_0.jpg
* Obr. 3: Earth. *NASA* [online]. 2002 [cit. 2018-03-28]. Dostupné z: <https://www.nasa.gov/sites/default/files/thumbnails/image/1-bluemarble_west.jpg>