SPACE

Space — Always something mysterious... Especialy for children. Let's use this mistery for teaching purposes! Space can be full of numbers, letters, stories, pictures, movement and experiments, of course. Use our toolbox ideas and travel to space with your children at any lesson!

Just click on activity in "choose your activity" area and get information ...

CHOOSE YOUR ACIVITY:

- Planets in the Solar System
- My friend Alien
- On the MOON
- Post Office in Space
- A Space Shuttle
- Imaginary Galaxy
- A map of an imaginary planet
- A crater experiment
- Our own solar system
- A journey to space
- Space city of the future
- Universe and Greek Mythology
- Far Away
- Making planets
- Feast of the stars

OŠ ELVIRE VATOVEC PRADE

5o ΔΗΜΟΤΙΚΟ ΣΧΟΛΕΙΟ ΧΑΝΙΩΝ

CENTRO PRADINĖ MOKYKLA

Planets in the Solar System

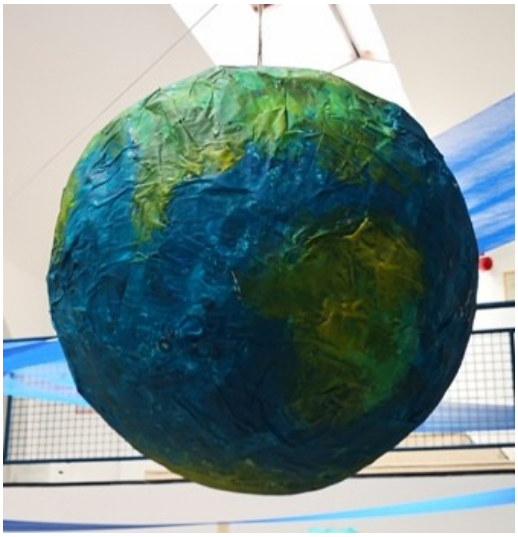
WE WILL LEARN

To make planets using the **papier-mâché** technique

- balloons
- paper (newspaper) strips
- water
- flour or other starch
- acrylic paints
- scissors, brushes

ACTIVITY STEP BY STEP

1. Make a mixture of water and flour or other starch to the consistency of heavy cream
2. Take a big balloon
3. Cover the balloon with soaked paper strips
4. Cover well the paper strips with glue (cream)
5. Once well dried paint the balls with acrylic paints
6. Make the final shape of the planet



Erasmus+

My friend Alien

WE WILL LEARN

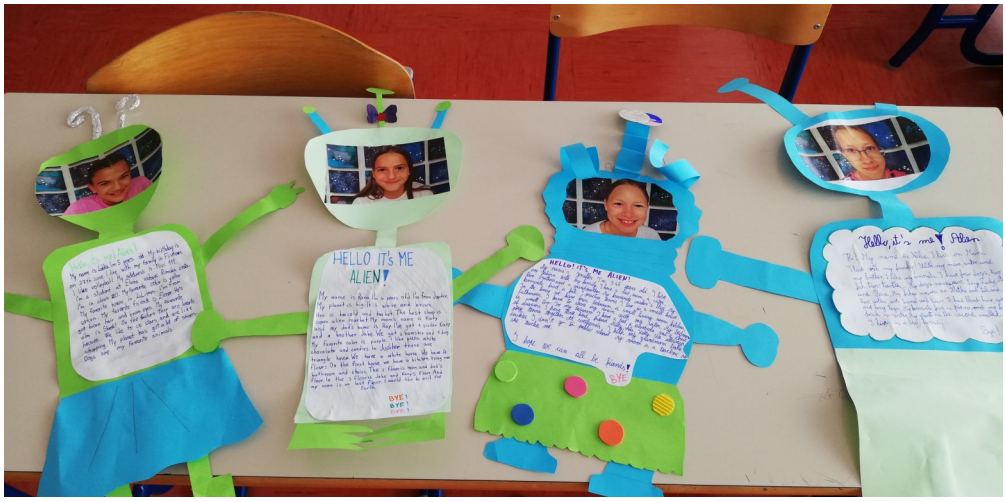
To make aliens from recycled materials

To decsribe an alien's identity

- any recycled paper
- any items for decoration (buttons, ribbons, threads, etc.)
- scissors, glue

ACTIVITY STEP BY STEP

1. Cut and shape your alien as can be seen in the picture
2. Decorate with any recycled items
3. Imagine and describe your alien's identity: his planet, family, hobbies, etc.
4. Label the description on the alien's body



Erasmus+

On the MOON

WE WILL LEARN

To make the Moon using recycled materials and **papier-mâché** technique

- a big piece of cardboard
- a few round plastic boxes (cups)
- newspaper strips
- water
- flour or other starch
- grey acrylic paint
- Scissors, brushes

ACTIVITY STEP BY STEP

1. Make a mixture of water and flour or other starch to the consistency of heavy cream
2. Cut a big circle from the cardboard
3. Put on a few round plastic boxes ('craters') and fix them with the tape
4. Cover well with a soaked paper strips
5. Cover well the paper strips with glue (cream)
6. Once well dried paint with grey acrylic paint
7. Make the final shape of the Moon

Erasmus+

Post Office in Space

WE WILL LEARN

To make a robot - Space Postman from recycled materials

- Different recycled materials: boxes, CD, cardboard, cassets,etc.
- Hot glue or strong adhesive tape
- Aluminium foil

ACTIVITY STEP BY STEP

1. Wrap boxes with aluminium foil
2. Make a robot 'Space postman' from boxes of different shapes. Fasten them with hot glue or strong tape
3. Vote for and give your space post office and space postman names
4. Make post boxes where pupils and teachers send mail

Erasmus+

A Space Shuttle

WE WILL LEARN

To make a space shuttle from recycled materials

- 4 large cardboard pieces
- recycled material: keyboard, monitor, head-phones, wheel
- water paints, brushes
- strong adhesive tape (or ropes)
- scissors

ACTIVITY STEP BY STEP

1. Draw and cut a shape of a space shuttle (or a rocket) on 4 large carboard pieces. Paint with water colours
2. Fasten the pieces with adhesive tape or ropes
3. Use other recycled material, for example a keyboard, monitor, head-phones, wheel, etc as the space shuttle's equipment
4. Have a fun ride in your imaginary space shuttle

Erasmus+

Imaginary Galaxy

WE WILL LEARN

To draw Imaginary Galaxy with acrylic paints on canvas

- acrylic paints of different colours
- framed canvas of smaller size (of square shape)
- a big piece of stronger cardboard
- hot (silicone) glue
- brushes
- sponges

ACTIVITY STEP BY STEP

1. First, paint canvas with some darker acrylic paint (black or dark blue). Use brushes. This will be the background
2. Use acrylic paints of different colours and a sponge to make your imaginary galaxy. Use white colour and a brush to sprinkle stars
3. Paint stronger cardboard or other surface (white looks nice) and fix your paintings on it with hot glue

Erasmus+

A map of an imaginary planet

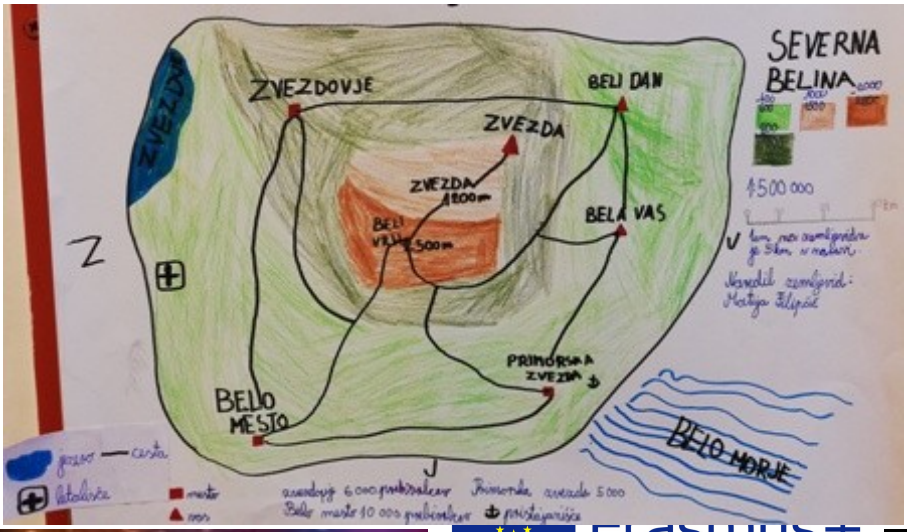
WE WILL LEARN

To plan and to make a map of an imaginary planet

- a bigger sheet of white paper
- coloured pencils
- a map of any country as an example

ACTIVITY STEP BY STEP

1. Pupils have a brainstorming activity. They make a mind map of what a typical map includes: names of places (towns, rivers, lakes, mountains, etc), main roads, landscape, map scale, other specific signs.
2. Pupils analise some map example (their own country) and find the data the map provides with.
3. Pupils make a map of an imaginary place—A new planet. They also create a map legend—a visual explanation of the signs they use in their map.



OREO MOON PHASES

WE WILL LEARN

- How and why the Moon changes its phases
- Names of the Moon phases in English
- The order of the phases

- Oreo biscuits and a knife
- Coloured papers
- Scissors
- A tray
- A handout The phases of the Moon

ACTIVITY STEP BY STEP

1. Watch the video: https:www.youtube.com/watch?v=B-b4XvuQo1Y&t=54s to introduce the topic.

2. In pairs pupils fill in the handouts with phases of the Moon: https://www.pinterest.com/pin/825566175414875671/

3. Cut the Oreo biscuits in half as presented in this activity: https://scienceb ob.com/oreo-cookie-moon-phases/

4. In small groups pupils arrange the biscuits in order of the Moon's phases. Afterwards they label the cookies with the correct Moon's phases.

5. At the end it's time for a Moon snack. Enjoy!




Erasmus+

A CRATER EXPERIMENT

WE WILL LEARN

- Why do craters on the Moon form
- How to make a Moon crater
- How the mass, shape, velocity and angle of impactors affects the size and shape of the crater

- A shallow metal pan
- Plain white flour
- Cocoa powder
- Strainer
- Marbles and different sized balls

ACTIVITY STEP BY

1. Watch a video about how were the Moon craters formed.

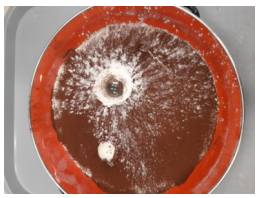
https://www.youtube.com/watch?v=mIRPeYGKfic

2. Prepare all the things you need for the experiment.

3. Fill the pan about 2 cm deep with flour and lightly sprinkle the cocoa powder to cover the entire surface.

3. Drop the marbles into the pan (they act as the crashing asteroids and comets). Try this with diferrent sized and weight of balls.

4. Observe how the mass, shape, velocity and angle of impactors affects the size and shape of the crater.



5. Make a classroom exhibition about Moon craters and the experiment.

Erasmus+

Our own solar system

WE WILL LEARN

- To learn the names of planets.
- To learn the distance of each one from the sun.

- computer
- cardboard
- markers
- scissors
- plasticine

ACTIVITY STEP BY STEP

1. We watched from internet the planets one by one, we learned their names, their size and their location in space.
2. Then we cut circles of cardboard, painted and glued them to the correct position.
3. Afterwards we used plasticine to make the planets. We put them tobs on each one with his name and placed them in relation to their distance from the sun on a black boc designed th

A journey to space

WE WILL LEARN

- To be able to identify and compare the planets of our solar system.
- To get to know how the astronauts live inside the spaceship.
- To discuss, to imagine and to create their own stories about <<an imaginary journey to space>>.
- The members of the team to cooperate and to communicate.
- To expand the expressive potentials.
- To enhance children's imagination

- computer
- cardboard
- markers
- scissors
- plastic plates

ACTIVITY STEP BY STEP

1. First we read books regarding space, we watched videos on you tube about the planets and about how the astronauts live inside the spacecraft.
2. Then, we divided in groups of 3, cooperated and wrote stories about "an imaginary trip to space".
3. We wore the astronaut helmet, made of white and black carton and arrived at the magical universe, with the stars and constellations.
4. We also made a handicraft to show the route our spacecraft followed on its way to space. We took a plastic plate, coloured it and cut it. Then we attached our carton spacecraft and the plate. many stars on

Erasmus+

SPACE CITY of the future

WE WILL LEARN

- Imagine the cities of the future
- To create a city model with simple materials.
- Compare with the current situation of cities.
- Introduce alternative forms of energy management.

- Egg cases
- Glue
- Aluminium foil
- Bottle corks

ACTIVITY STEP BY STEP

1. The children were divided into groups and presented their views on what cities might look like in the future.
2. They all agreed that cities should only have energy from the sun.
3. They gathered the materials.
4. They implemented the model of the city of the future.
5. They presented their work at a technology exhibition.

Erasmus+

Universe and Greek Mythology

WE WILL LEARN

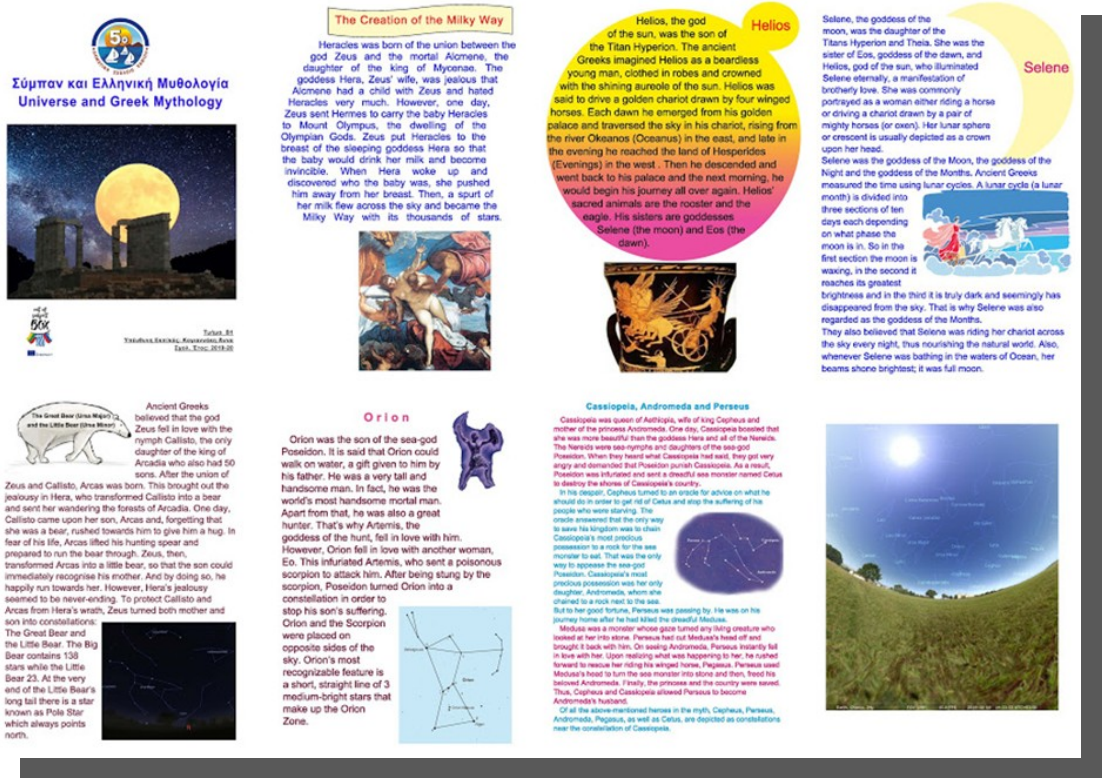
- Let's look at the universe from another angle.
- To relate reality through cultural tradition.
- To record ancient Greek myths mentioned in the universe.
- Present my findings in a book.

- Computer Software
- https://stellarium.org/
- https://www.greekmythology.com/

ACTIVITY STEP BY STEP

Through the eyes of the ancient Greeks we looked at the Universe with its constellations and learned what they believed about its creation through the ancient Greek myths. We wrote a book with the best-known myths, we designed constellations, stars, planets and satellites, and linked the tale to reality.

Link:



https://issuu.com/s.vilutis/docs/convert-jpg-to-pdf.net_2019-10-11_08-35-41

Erasmus+

Far Away

WE WILL LEARN

- Get to know the solar system.
- Organize the data.
- To discover knowledge through artistic creation.
- Adopt life attitudes about the future of our planet.

- Computer
- Paper
- Glue
- Markers
- Scissors

ACTIVITY STEP BY STEP

With our imagination, the thirst for learning and the development of our skills we have reached far to the edge of our solar system. We got to know the planets in turn, visited them and realized how much we had to take care of our Earth, because it is the only one.

Erasmus+

Making planets

WE WILL LEARN

- To get to know the planets of our solar system, and to distinguish the main characteristic of each one.
- To create the planets using the "papier macher" technique
- To improve minor skill ability

- Balloons
- Pieces of newspaper
- Opaque colors and brushes

ACTIVITY STEP BY STEP

1. Blew up the balloon
2. Cut the newspaper into narrow stripes
3. Immersed the newspaper stripes into the white glue
4. Glued the stripes onto the balloon, making sure there weren't any empty spots
5. Let the glue dry and broke the balloon
6. Painted the planet with opaque colors

Erasmus+

Feast of the stars

WE WILL LEARN

- To highlight a theme through choreography
- To approach space, stars and constellations through an interdisciplinary manner
- To develop acoustic and space perception
- To improve motor and movement expression skills

- computer
- Video camera or mobile phone
- Uniforms made of lining fabric
- Crowns for the head made of shiny cardbo-

ACTIVITY STEP BY STEP

1. Listened to the song "the feast of the stars" and learned the lyrics.
2. The children, by the guidance of the fitness instructor started to learn the choreography
3. Recorded the video using a mobile phone
4. Edited the image and sound
5. resented the choreography through Skype to our Slovenian and Lithuanian Erasmus partners.

Link:

https://youtu.be/Fyfyud6LzLU

Erasmus+

Exploring space

WE WILL LEARN

- To get to know basic concepts such as: planets, stars, universe, galaxy, constellations
- To know our solar system, by acquiring basic information regarding each planet (shape, analogy to earth, distance from the Sun)
- To learn about the life of the

- Computer, information books
- Colored craft papers, scissors, cutter and glue
- Opaque colors and brushes
- Thick cardboards (A4)
- A large cardboard box (1m x 1,5m)
- Rolls of toilet paper

ACTIVITY STEP BY STEP

1. Watched videos on You Tube and read books concerning Space
2. Drew the figure of an astronaut on the cardboard box, removed the "head" with a cutter and painted with opaque colors.
3. Put our head in the hole and took pictures as astronauts!
4. Painted the toilet paper rolls with opaque colors and decorated them with fabrics and beads.
5. Photocopied the figure of a rocket on thick cardboard A4, made small pieces of colored paper and glued them on the rocket, creating the "fire tail" and the "windows"
6. Presented our work.

Erasmus+