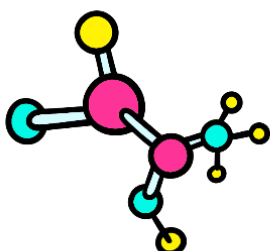
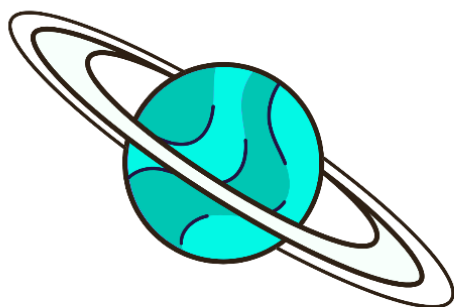
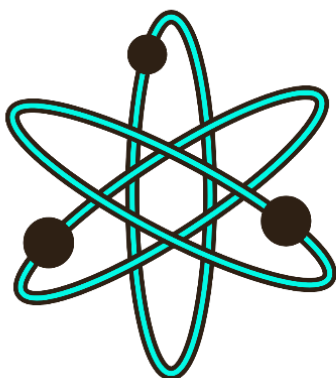
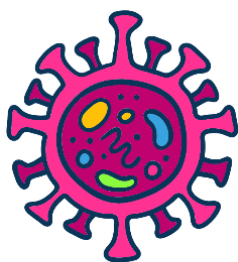




## Topic: We Did It In Poland!

**Lesson duration:** approximately 50-60 minutes

**Age group:** 5 - 6 years



## General objective

Presenting Poland to children as a country where extraordinary projects can be created and dreams can come true. Fostering a sense of pride in Polish scientific achievements that bring recognition to our country.

## Specific objectives

- learning about examples of Polish inventions and feeling pride in these achievements;
- developing children's curiosity through contact with modern technology that benefits people;
- strengthening children's self-esteem and building a positive self-image by accepting their ideas;
- stimulating and developing expressive thinking through chosen forms of verbal, movement, musical, and artistic activity;
- developing imagination by creating their own inventions and finding new, creative uses for familiar objects;
- creating conditions that encourage children's openness to cooperation and creative action.

## Forms of work

- whole group activities;
- individual work.

## Methods

- guided conversation;
- activating methods: inspiration circle and brainstorming;
- practical activity method;
- expressive method – imagination exercises.

## Teaching aids

- a hat or cap, cardboard boxes of various sizes, several sticks, toilet paper rolls, plastic cups, newspapers, strings, a few scarves, a watch, a plastic plate, balloons;
- a cardboard box – “Polish Innovation Box”;
- illustrations showing Polish inventions;
- art materials: paper, glue, scissors, cardboard, foil, colored paper, stickers, glitter, boxes, fabric scraps, corks, buttons;
- any upbeat, dynamic music;

## LESSON FLOW

### 1. The hat of ideas

The children sit in a circle. The teacher shows them a magical hat and explains that it is the Hat of Ideas. When someone puts it on, they receive a superpower – the ability to invent new things or come up with unusual uses for familiar objects.

The teacher then places various objects in front of the children: cardboard boxes of different sizes, several sticks, toilet paper rolls, plastic cups, newspapers, strings, a few scarves, a watch, a plastic plate, balloons, etc. The teacher puts on the hat and chooses one of the objects, explaining a creative use for it (for example, *a dollhouse* or *a dice cube*).

Next, the hat is passed to a child, who shares their own idea with the group. After each idea, the children make a gesture of appreciation – for example, they clap, shout **WOW!**, or say **Great idea!**

The preschoolers can also look around the classroom to find other objects they'd like to transform into something new or give a surprising new use.

The main rule of the game is that **every idea is good and accepted!**

### 2. The box of polish innovations

*In Poland, there are many people who come up with inventions that help not only our country but also people all over the world. This kind of activity is called innovation. An innovation is the creation of a new or improved product or service that is significantly different from what existed before. In this “POLISH INNOVATION BOX”, there are illustrations showing famous inventions created in our country.*

The children draw cards from the box with pictures of Polish inventions (**Appendix No. 1**). After each draw, the teacher asks if the children know what it is and what it might be used for. Then, the teacher explains what each invention actually does.

**Bionic Pancreas:** *This is a very clever invention! Polish scientists 3D-printed a real human organ! Thanks to it, sick people can feel better. It's like magic but real!*

**Parcel Lockers:** *These are boxes where our parcels are delivered! Thanks to them, we can pick up a package even at night! They were invented by Mr. Rafat from Poland.*

**Mars Rover:** *This is a robot that explores planets where humans cannot land, like Mars. The rover can do many things - it drives over rough terrain, climbs rocks, and overcomes obstacles. It was created by young people who once went to preschool and school - just like you - and had big dreams! What sounds do you think a rover might make? How does it move?*

**Eye Payment:** *This is a way to pay without using money, a bank card, or even a phone! You just look at the screen and... it's paid! This was also invented in Poland!*

**VIDRE+:** *This is a Polish “magic sticker”! It works in such a way that fruits and vegetables stay fresh for longer. Why do you think someone came up with this idea?*

**BLIK:** *Just tap your phone, enter a code and that’s it! You can pay for your shopping without a wallet! And yes, it was invented by Poles too! How many people do you think had to work on this?*

**Eleven Labs:** *This is a program that allows a computer to speak with a human voice! Imagine - it can read fairy tales and news out loud just like a person! Would you like to have this invention at home?*

**Bursztyn Rocket:** *A real rocket made in Poland! And what’s more, it runs on eco-friendly fuel.*

**CoolCryo – Healing with Cold:** *A special machine that treats sick people using cold! It freezes and heals diseased cells while leaving the healthy ones untouched.*

More innovations and printable cards for classroom use can be found on [the website We Did It in Poland.](#)

### 3. Polish inventions dance

The teacher invites the children to use movements to show how they imagine Polish innovations work. The teacher can also play rhythmic music and encourage them to dance the “Polish Inventions Dance.”

- Mars Rover
- InPost Parcel Lockers
- BLIK
- Bursztyn Rocket, etc.

### 4. I Can Do It In Poland!

*If such amazing things have been invented in Poland, then you can also create something extraordinary! What kind of invention would you like to make to help others or make your own life easier?*

The children create their own inventions. They can use unusual materials such as cardboard, aluminum foil, plastic wrap, glitter, and other craft supplies.

At the end, each child presents and talks about their invention. A Preschool Innovation Gallery can be arranged in any area of the classroom or school to showcase their work.



**InPost**

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parcel delivery and pickup  
through Paczkomat® InPost.



# Bionic Pancreas

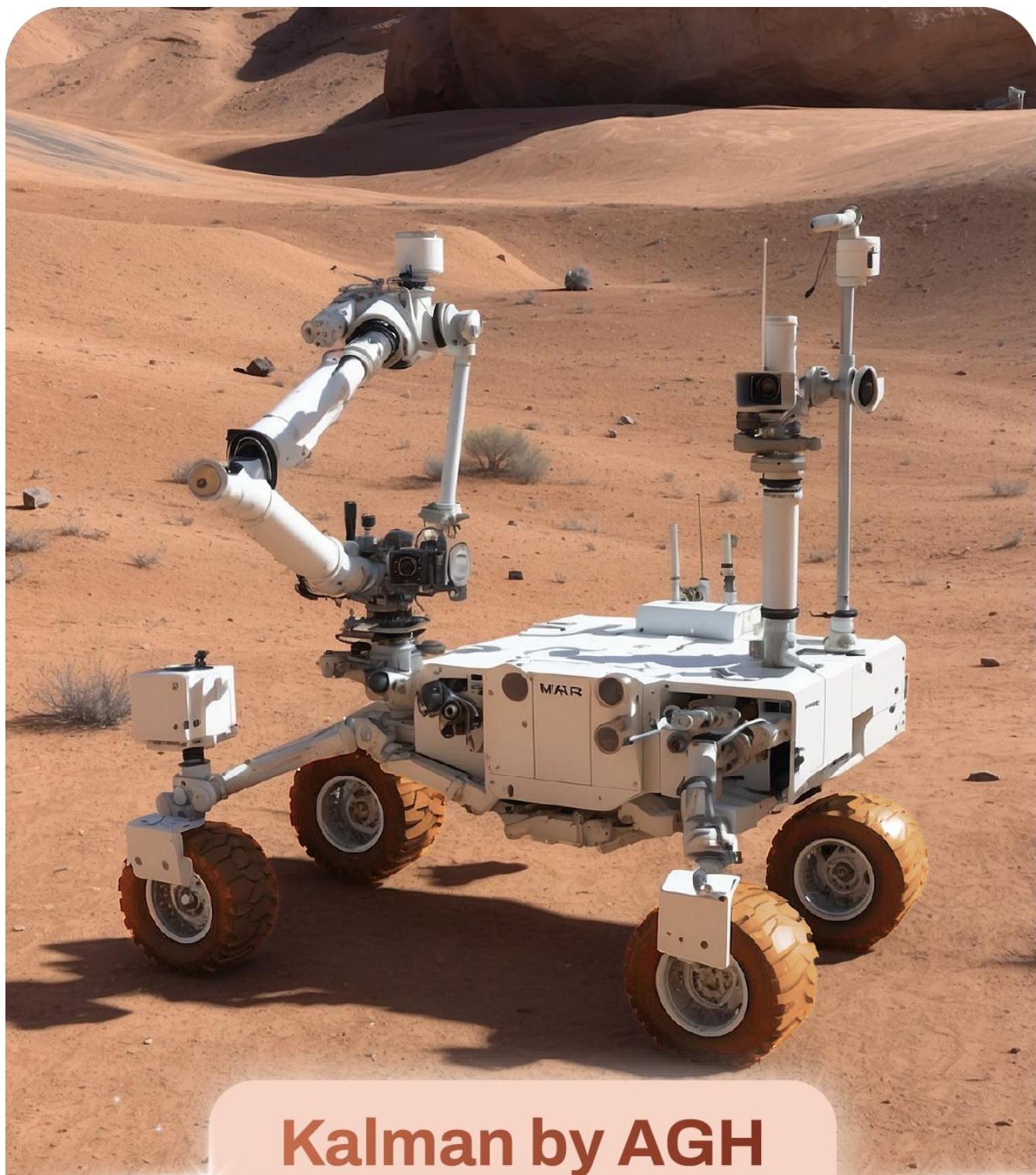
Fully functional, 3D printed bionic organ.





**BLIK**

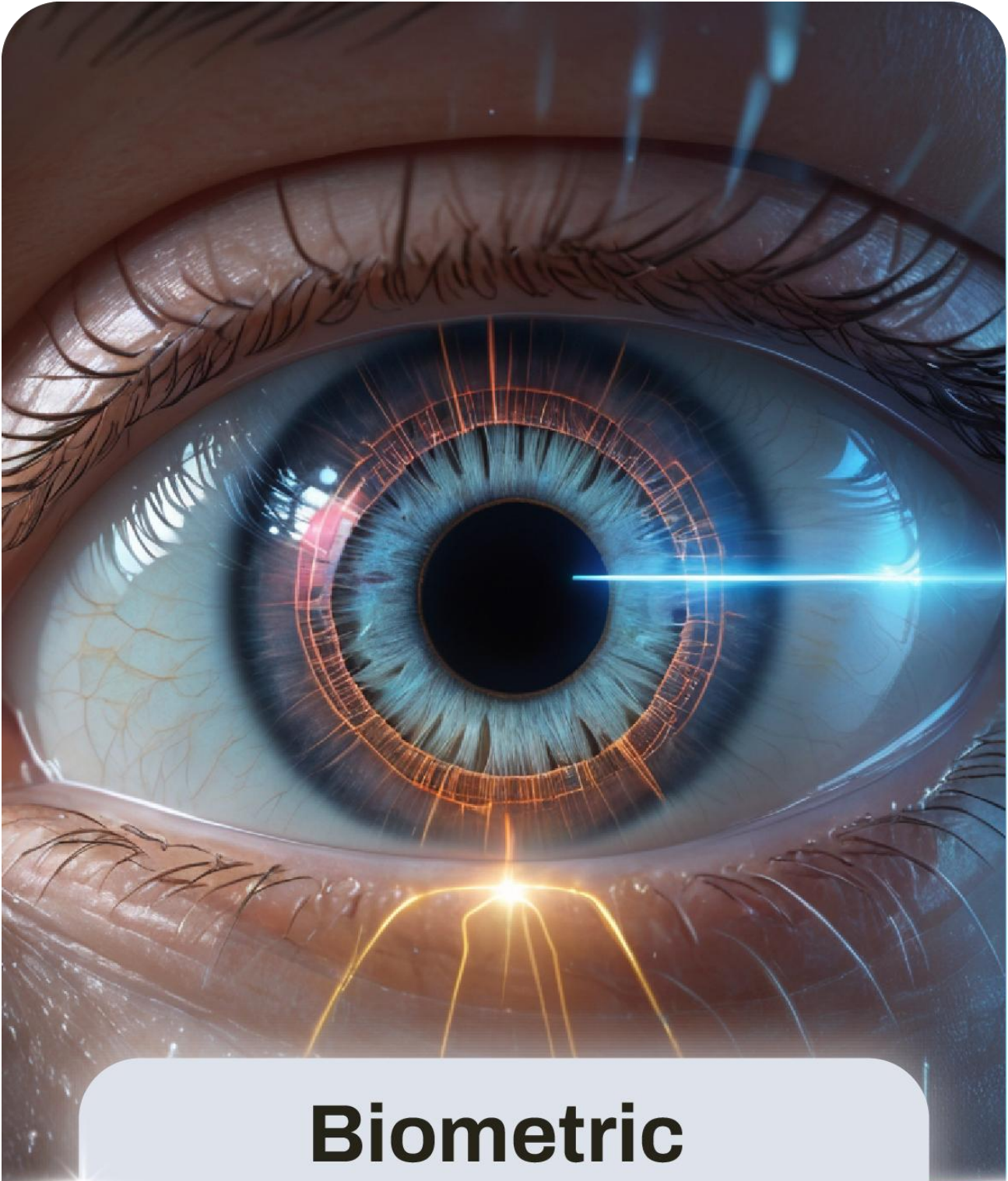
Team of financial experts came up with  
modern virtual payment technology.



## **Kalman by AGH Space Systems**

Polish students have built an innovative  
Mars rover.





# **Biometric Checkout Program**

We have performed world's first payment  
with a glance.



**ElevenLabs**

Our technology can generate natural-sounding voices and sounds in 32 languages.





## **ILR – 33 AMBER 2K Rocket**

We have flown into space  
on green fuel.



**VIDRE+**

Innovative product packaging to help  
preserve freshness







**CoolCryo®**

Technological breakthrough in the treatment  
of cardiac arrhythmias



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