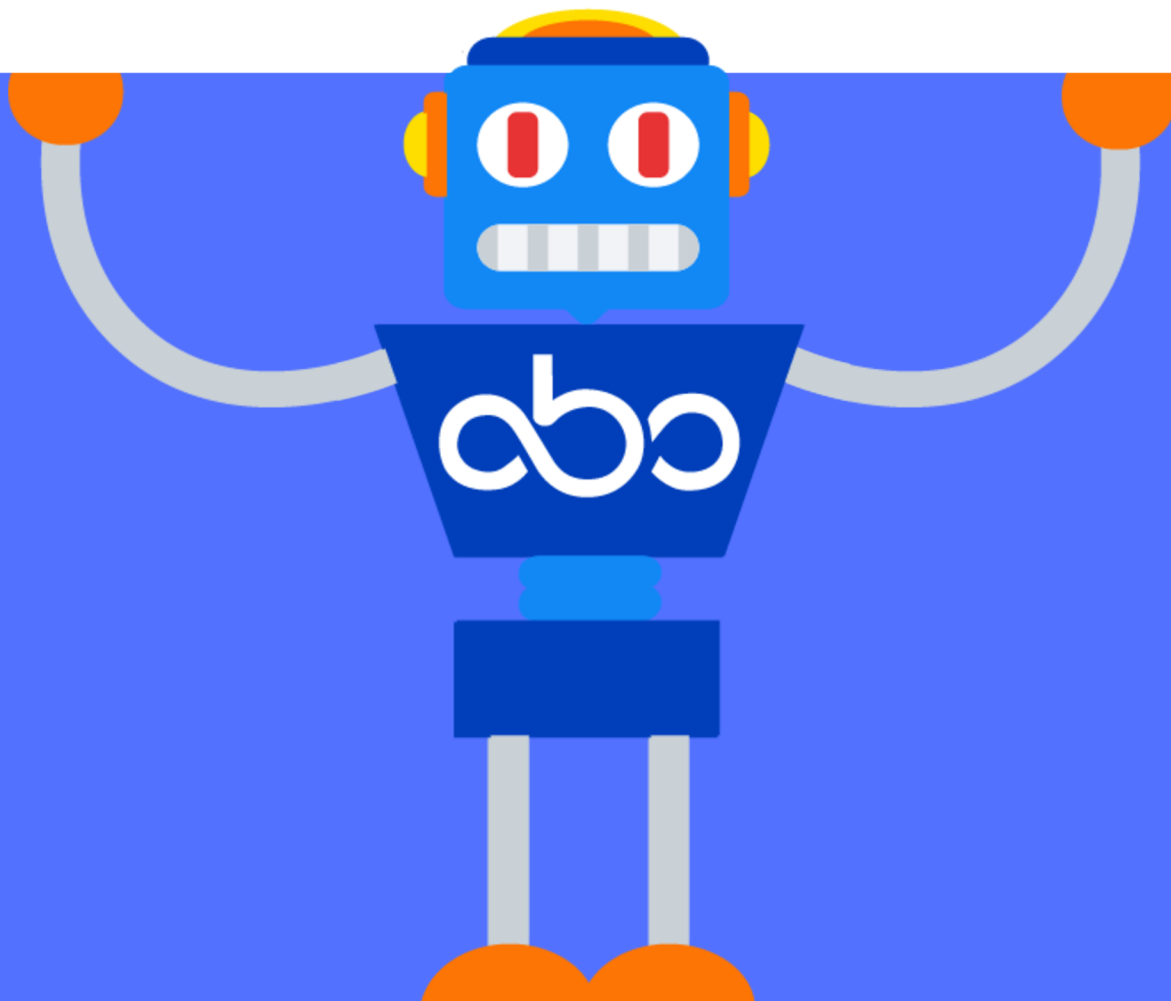




EU **FOR** **ALL**

Using Sustainable Entrepreneurship to Rebuild European Heritage for
Everyone



EU FOR ALL



SOFÍA · BULGARIA



NEVSKI CATHEDRAL





The resources of the EU FOR ALL project, including the materials kit, 3D models, and educational proposals, are undergoing continuous improvement. We are constantly working to incorporate new ideas, adjustments, and contributions from the participating teams. Therefore, both the documents and files may be reviewed and updated over time.

www.euforall3dproject.com

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PARTNERS:



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Terms of Use and Funding

- Licensing, credits, and Erasmus+ co-funding






🎯 Bulgaria and it's culture

About Bulgaria

Bulgaria is one of the sovereign states of Europe. Its capital is Sofia. Located in the southeastern region of Europe, it is part of the Balkan Peninsula. It borders Romania to the north, Serbia and North Macedonia to the west, Greece and Turkey to the south, and the Black Sea to the east.

Bulgaria declared its independence in 1908 after formally separating from the Ottoman Empire. In 2004, the country joined NATO, and in 2007 it became a member of the European Union, which strengthened its political and economic integration within the European continent.

<u>Map of Sofia</u>	<u>Geographic information</u>
	<ul style="list-style-type: none"> • Capital: Sofia • Area: 110,994 km² • Population: 6.4 million • Official language: Bulgarian • Currency: Bulgarian Lev (BGN) • Climate: The climate in Bulgaria is continental, with cold and snowy winters, and warm and dry summers, especially in the inland regions.

Culture

In Bulgaria, traditional clothing varies by region, but they generally wear the "nosia". Women typically wear long, colorful dresses with elaborate embroidery, decorated aprons, and headscarves. Men wear white linen shirts with embroidery, dark wool pants, wide sashes, and often a traditional hat called a "kalpak". These outfits are worn during traditional celebrations.

Regarding gastronomy, one of the most typical dishes is "banitsa", a savory pastry made with layers of dough filled with cheese, eggs, and yogurt, baked until golden and crispy.

Other Interesting Facts

- **Festivities:** One of the most important festivals is Kukeri, held at the beginning of the year. During this event, men dress in fur costumes and grotesque masks and dance to scare away evil spirits and attract good luck.
- **Heritage:** Bulgaria is home to UNESCO World Heritage sites, such as the Rila Monastery and the Boyana Church.
- **Sports:** The most popular sport is football, with a strong following throughout the country. Bulgaria also excels in disciplines such as wrestling and weightlifting.



Let's look for it in the European Union.

Where is Bulgaria? Can you find it? Color it on the map and mark where the capital, Sofia, is located. Once you find it, mark the city's location with a colored dot.

 Marks the city of Sofia



Reading Comprehension

Once you have read the information about Bulgaria, answer the following questions:

- What language do they speak in Bulgaria?
- What is the currency they use?
- What ingredients are used to make their most typical dish? What is it called?
- When is their most popular festival celebrated? What is it about?
- What is the most popular sport in the country?



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Virtual Tour in Sofia

- Sofia is the capital of Bulgaria and is located at the foot of the Vitosha Mountain. The city is composed of several areas, with the historic center being the most prominent. Could you find out which area the Nevski Cathedral is located in? Create an itinerary to visit at least three important monuments in the city and finish at the Nevski Cathedral.
- You can use applications such as Google Maps, Wikipedia, etc.

Write your itinerary here



Fun with Flags

Search for information about the flag of Bulgaria and write down the aspects that stand out to you the most.



The flag of Bulgaria...



Look for some information about the building

- In what year was it built and by whom?
- In honor of which person was it built?
- What material was it built with?
- What is its height?
- Can you find the exact coordinates of the building?

• It was made....

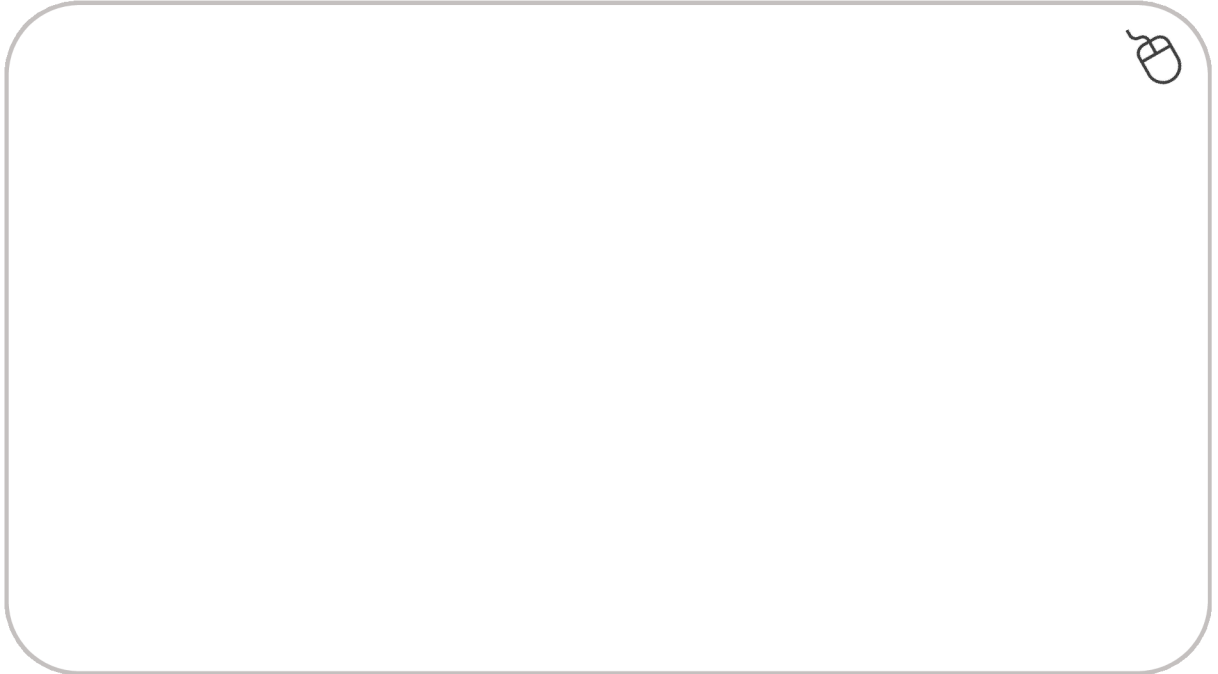
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🕒 Design test! Countdown!

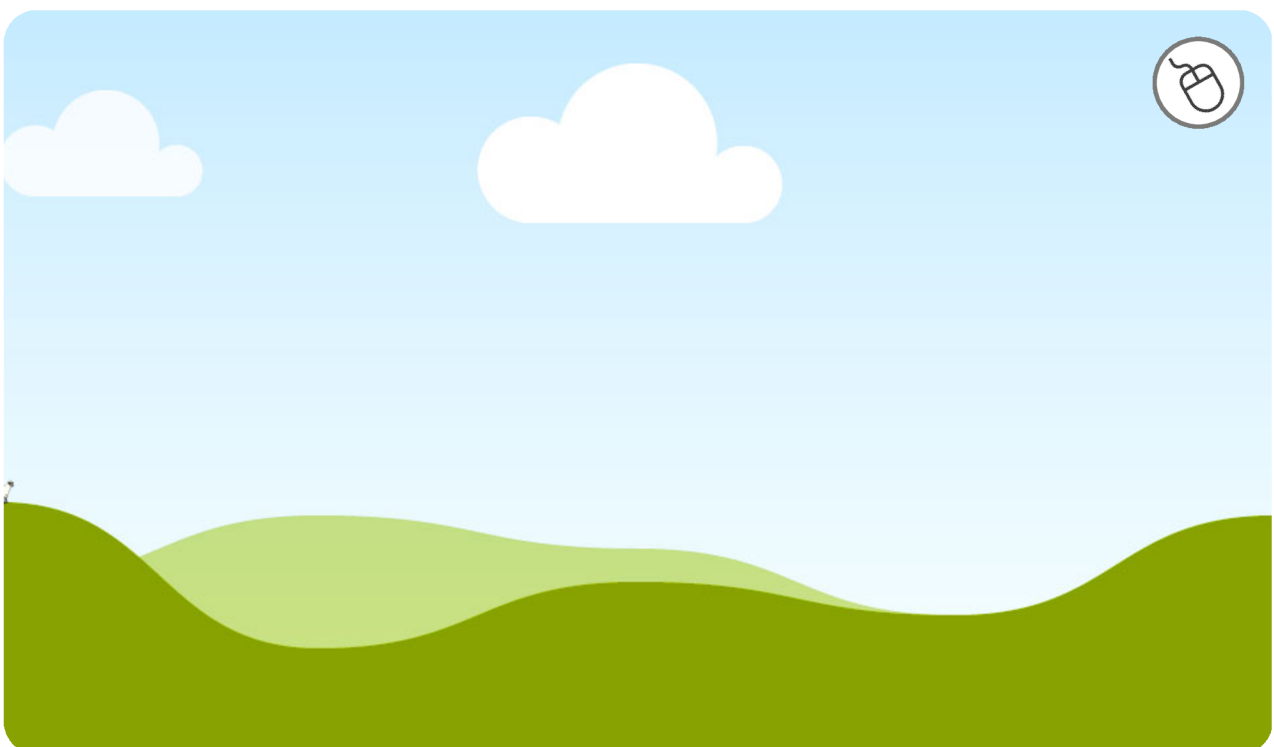
If you had to draw the Nevski Cathedral using basic geometric shapes, how would you do it? Remember not to add details. You have __ : __ minutes.

Geometric shapes



🌟 Create your digital postcard!

Sofia is the capital of Bulgaria and is located at the foot of the Vitosha Mountain. Could you find out which area the Nevski Cathedral is located in? Take a screenshot or find a photo of the monument, insert it into a frame, and create your Sofia postcard. You can use: Google Earth or Google Maps.





3D Design of the building

Do you dare to design the Nevski Cathedral? Follow the instructions given in the tutorial video.

We recommend:

- Search for the monument on Google Earth.
- Download photos from different viewpoints.



Scan the QR code to watch the Nevski Cathedral tutorial video.

Printing parameters

We've tested these designs with parameters that gave us great results using PLA as the material. That said, every 3D printer is different, so you might need to tweak some settings to achieve the best quality.

That's the wonderful (and sometimes frustrating) part of 3D printing! We encourage you to experiment and adapt the settings to your machine. If you improve the results, let us know!

Layer height	0.2	Walls	2
Speed	300 mm/s	Top/Bottom Layers	6/3
Temperature	190° - 210°	Travel Speed	400 mm/s
Infill	15%	Bed adhesion	No

It's important to consider factors such as whether your printer requires supports for certain parts of the model, how it handles bridging, and other details that may vary depending on your machine and the slicer you use.

Create your video about Bulgaria

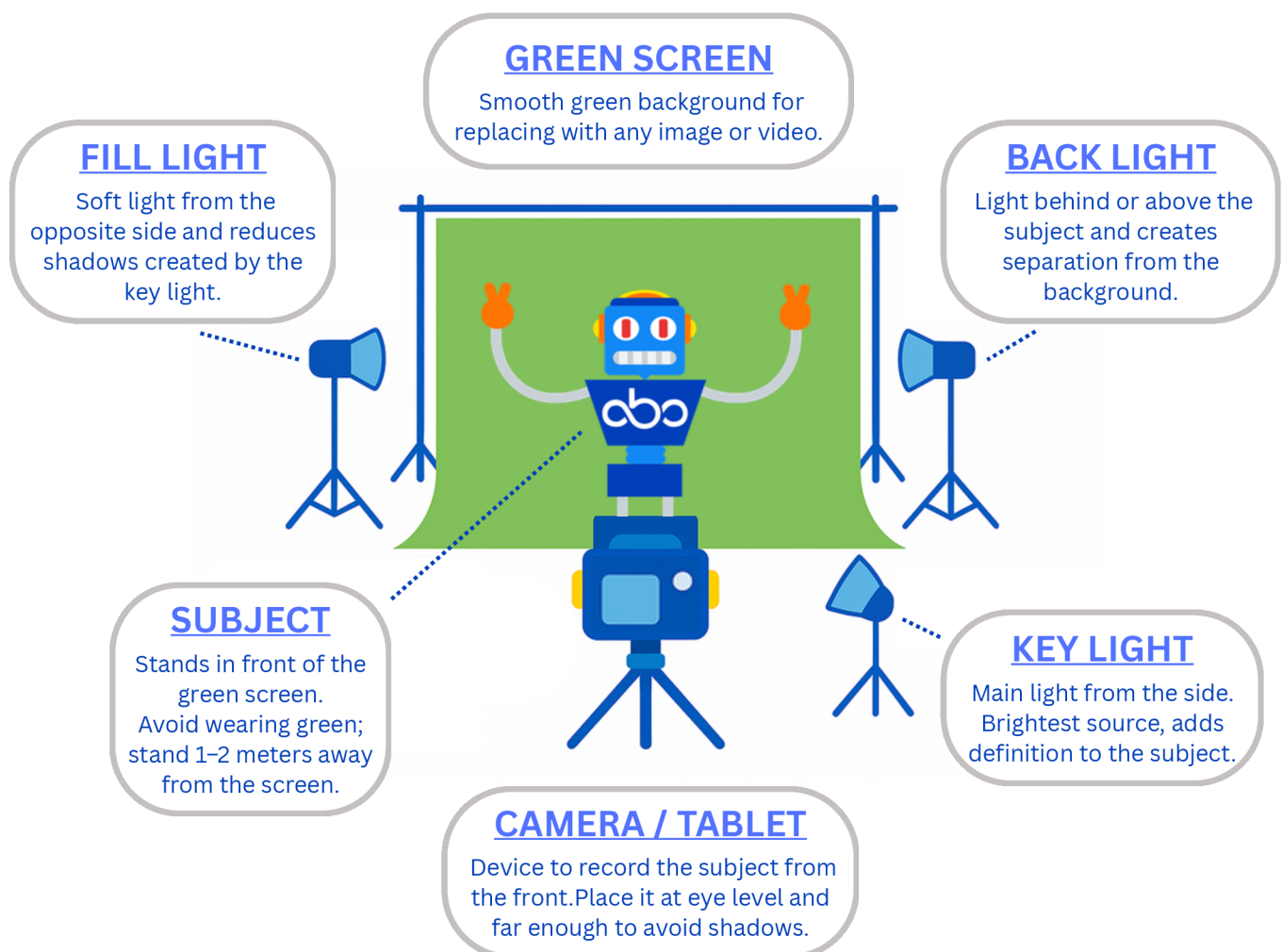
Create a **short video** where you present your virtual tour itinerary of the country you studied, using a **green screen background**.... What do you have to do?

- **Think about the route** you created in your “Virtual Tour” activity.
- Write a **short script** as if you were a travel guide or presenter. Example:

“Hi, I’m [Name] and welcome to our tour in [Country]! Today we’ll visit three amazing places. We start in... and finish in...”

- Use a **green wall, a simple colored background** or a green cloth.
- **Record your video** using a tablet or smartphone.
- Add your **digital postcard** or **background image** using CapCu or OBS Studio
- **Share your video** with your class and with us at www.euforall3d.com!

[This is how you should set up your green screen to record your video correctly!](#)





Let's learn how to use artificial intelligence

Design a creative image using artificial intelligence, based on what you've learned about the country. Your artwork will be part of our European Digital Alrt Museum! What do you have to do?

- **Think about what you've discovered:** monuments, traditional clothes, nature, legends, people, food...
- **Imagine a picture** that shows all that. It can be real, magical... or both!
- **Write a prompt** to tell the AI what to create.

What is a prompt?

A prompt is a sentence or idea you give to an AI image tool. It helps the tool understand exactly what kind of picture you want. The more creative and clear you are, the better the image will be!

Example:

"A child in traditional [Country] clothes standing in front of a magical castleduring a festival with fireworks."

- **Use an AI tool** like Deep AI or Canva AI to create your image.
- Save or print your artwork and place it in the special frame for our *European Digital Alrt Museum*.
- **Give your image a title and write one short sentence** explaining what it shows.



Add the title

My artwork represents a....

Please provide the title of the work, the artist's full name, country of origin, and age

My artwork represents a....



Share your artwork at the European Digital Art Museum: www.euforall3d.com

Terms of Use and Funding

The educational materials developed within the framework of the EU FOR ALL project, led by the consortium of OBO - We Teach Robotics, have been designed to promote digital inclusion and technological literacy.



These materials aim to provide accessible and engaging learning experiences that foster key competencies in digital skills, problem-solving, and critical thinking. Through interactive and hands-on approaches, the project seeks to empower learners of all backgrounds by equipping them with the necessary tools to navigate an increasingly digital world.

Developed in collaboration with experts in education, technology, and inclusion, these resources reflect the commitment of the EU FOR ALL consortium to innovation in education and the reduction of the digital divide.

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