

# 5. 3D

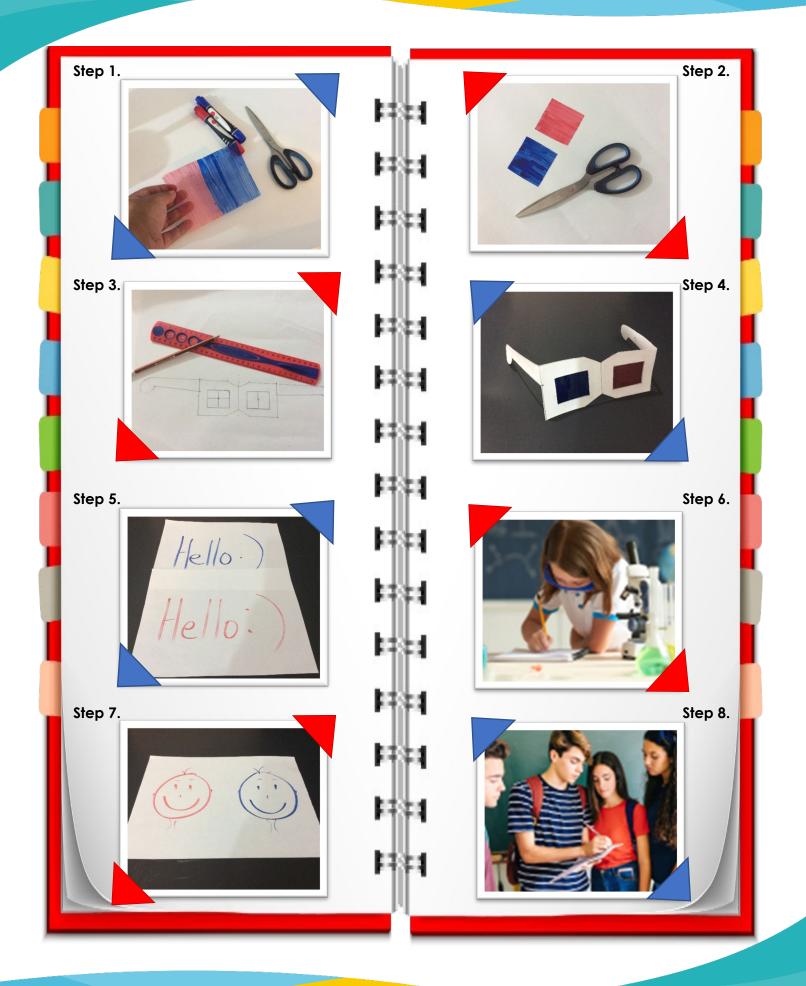
Topic:	Optics	
Objective:	Student will observe the effects of optics on the 3D lenses that are usually found in cinemas, understand what happens with colours and the effects of making a two-dimensional drawing into a three-dimensional one. lenses, dimensional, cardboard, 2D, 3D	
Voosbulgerg		
Vocabulary:		
Materials:	- A piece of cardboard	- A blue permanent marker
	- A transparent lid or acetate	- Scissors
	- A red permanent marker	- A glue stick

#### **Development:**

#### • Read and look at the pictures.

- **Step 1.** Colour half of the acetate or lid with the red marker and the other half with the blue one.
- **Step 2.** Cut out two squares for the lenses (one blue and one red).
- **Step 3.** Draw on the cardboard a glasses-frame and cut it out leaving the spaces for the blue and red lenses glue the lenses to the frame.
- **Step 4.** Fold the lines of the cardboard frame and make the glasses.
- **Step 5.** On a sheet of paper, write a message with a blue marker and a different message with red marker.
- **Step 6.** Write down what you observe by looking at each of the colour writings separately.
- **Step 7.** Make a drawing with a blue colour and next it, make the same drawing with a red colour observe with the glasses on.
- **Step 8.** Write down what you noticed and discuss with your classmates why this effect happens.





## Tell us...

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### Read and answer the questions.

- 1. How many markers did you need for the project?
- 2. What colour was the cardboard that you used?
- 3. What did you use the glue stick for?
- 4. What colours do the 3D glasses have?
- 5. How did the drawings look with the 3D glasses?



	3D
	Glue your
	picture here
	:)
1	. What was your favourite part of the project?
2	. What, exactly, did you like the most?
3	. Extra notes on what you observed during the project
	. Can you see or apply the information from the project in real life? YES / NO xplain:
E 5	. Was it easy to get the materials for the project? YES / NO xplain: