

DIVERSITY IN STEM EDUCATION



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Visual perception

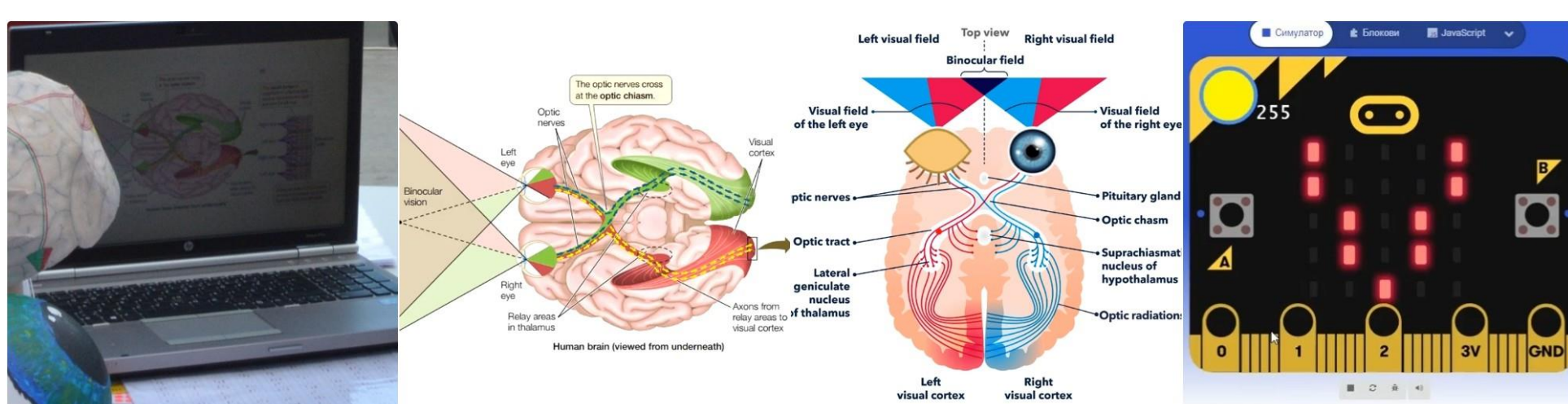
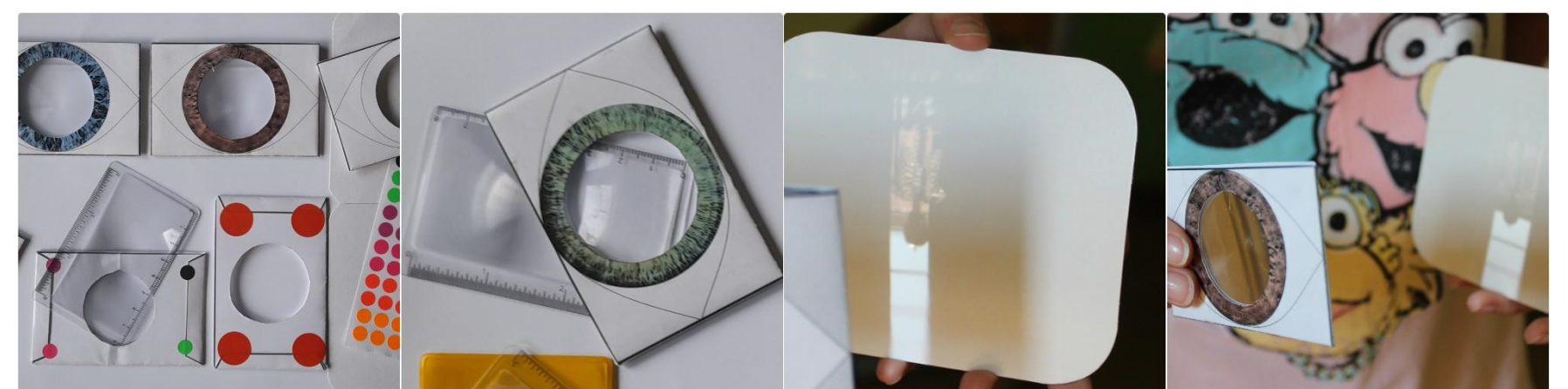
Biology, Physics, Art, IT

When we see our reflection in the mirror, we cannot help wondering: What lies behind? How do our eyes help us get to know the world around us? How do our eyes actually function? Answers to these questions are interspersed with challenges that pupils find inspiring enough to strive to explore this mystery further.

Eye anatomy: assembling a model using various materials found at home.



An image on the retina: a model of the anterior and posterior segments of the eye assembled using paper and a magnifying glass, an experiment in person.



Visual pathway simulation: an animation of a nerve impulse transmission and possible irregularities.

Coding with micro:bit: conversion of a physical stimulus - light of certain intensity - into electrical impulses.



Optical illusions. Reading with your fingers. Examples of optical illusions in person. Composing a message in Braille for a classmate.

The project involves challenge-based and experiential learning as well as extensive research into the topic by young, self-taught enthusiasts.