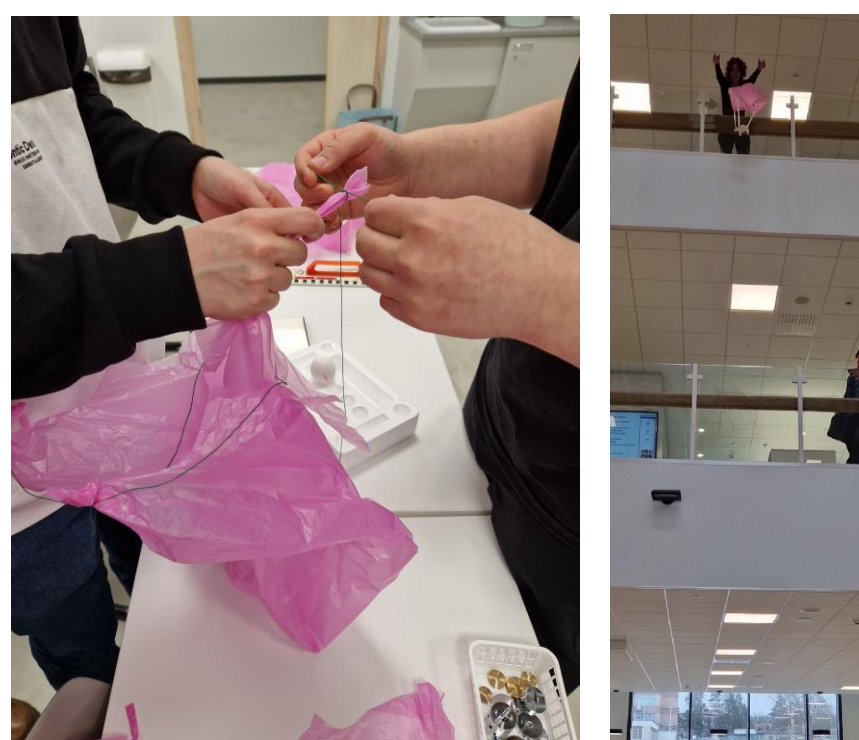
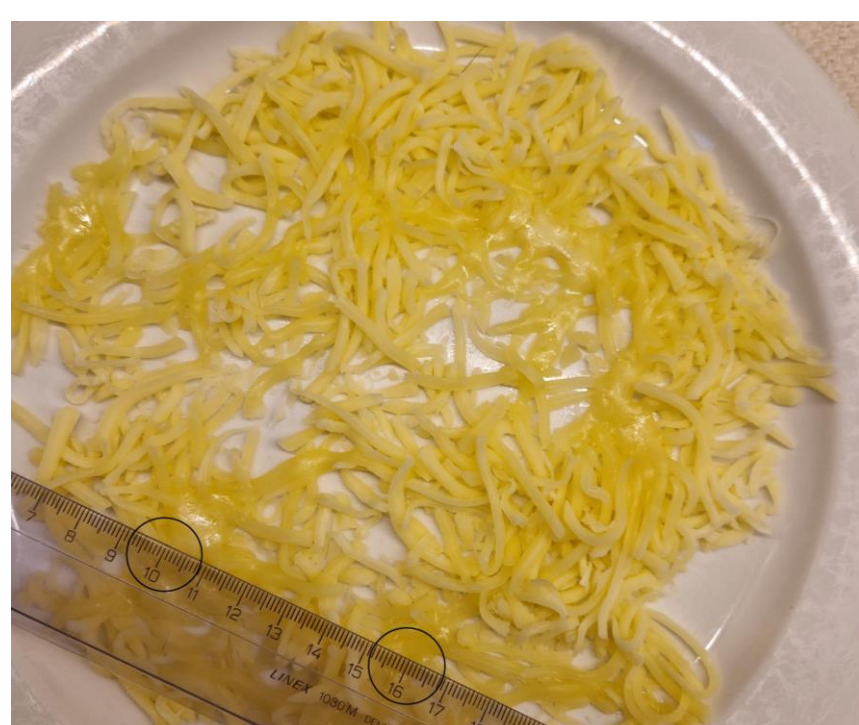
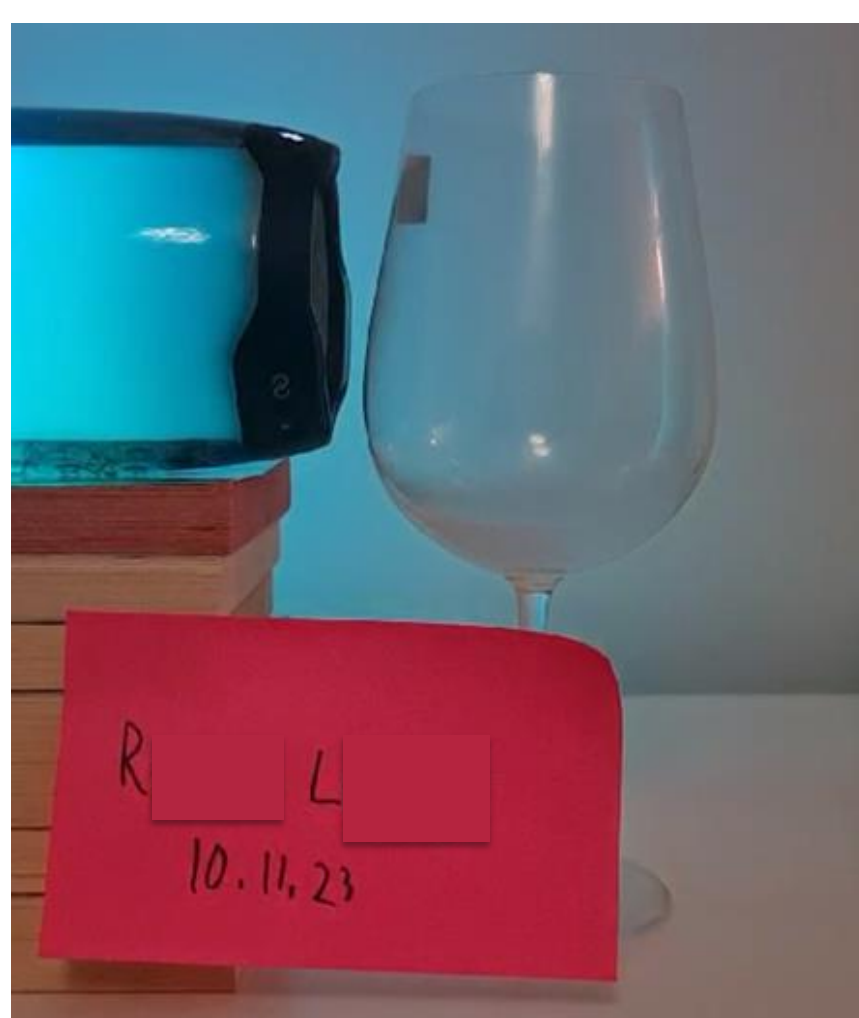


Low-Cost Experiments in STEM Education



Mirjami Kiuru | Hyvinkään lukio | Hyvinkää | Finland

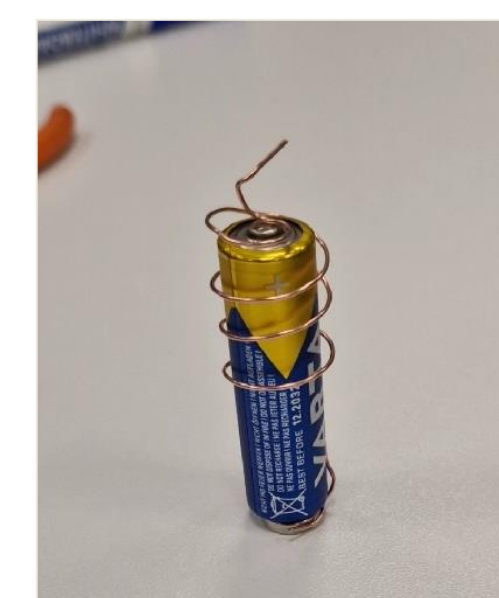
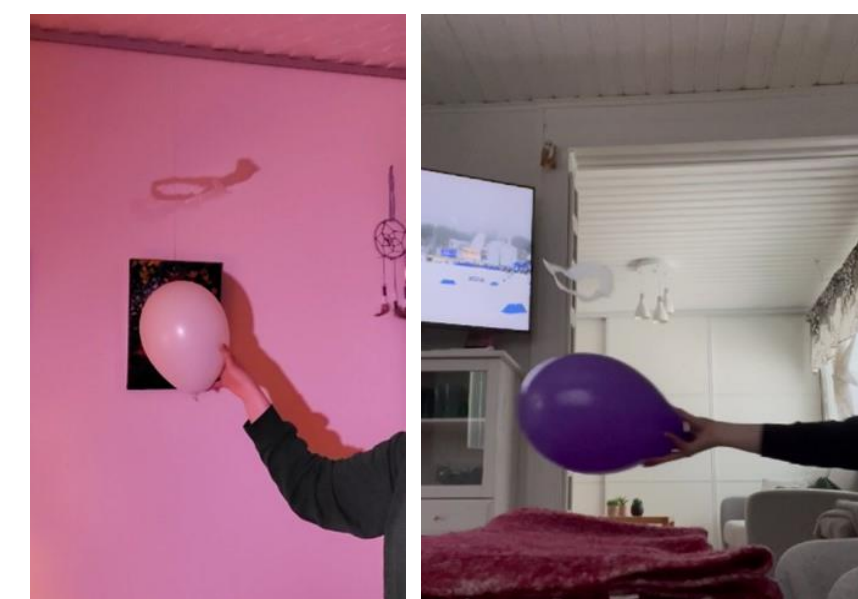
DIY projects and simple experiments as physics homework assignments in secondary school



- + Students do simple experiments or engage in simple DIY projects at home and take photos or videos of them.
- + Students must be identified either by appearing in the video or by having their name shown on a paper in the video.
- + A larger variety of students' skills can be identified and rewarded.
- + It's acknowledged that having the ability to build something with your own hands is a valuable skill.

On the left:
Wine glass resonance with a Bluetooth
loudspeaker and tone generator app.
Speed of light with grated cheese and
microwave oven.
Parachute and landing gear for Mr. Egg.

On the right:
Balloon, plastic ribbon and the
electric force.
DIY electroscope.
Simple electric motor.
Spectrum of light with plastic grating.



Principles:
Keep it simple!
Make it fun!

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