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Simulation website - Vascak

Simulation

A simulation is the re-creation of a real world process in a controlled environment.

Simulations take a number of forms.

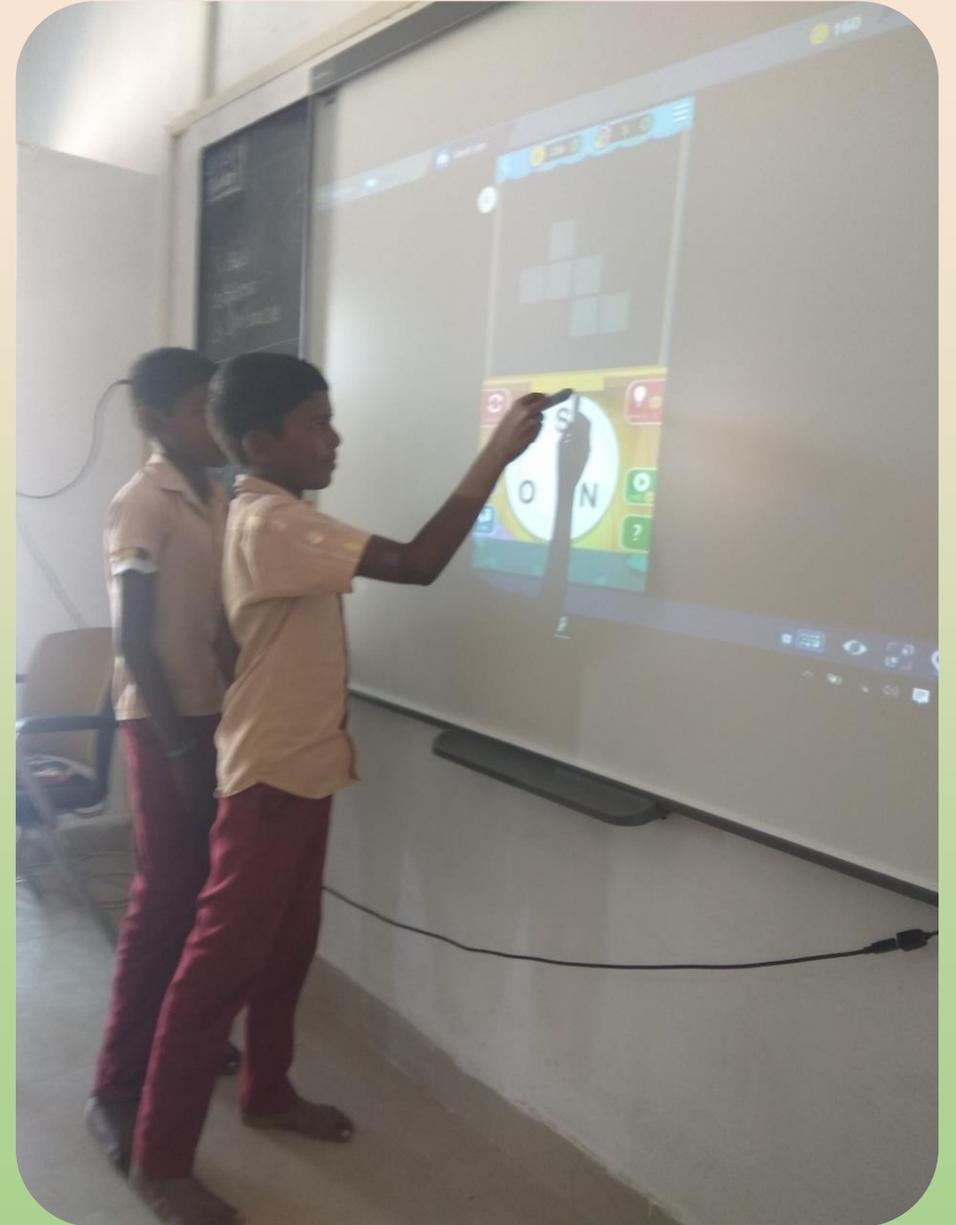
They may contain elements of:

- a game
- a role-play



A simulation is a form of experiential learning.

In teaching –learning process it provides direct interaction between the student and contents.



vascak.cz is an educational simulation website.

The screenshot shows a web browser window with the URL `vascak.cz/physicsanimations.php`. The page features a header with a row of 20 national flags, including a sad face emoji, and a navigation bar with buttons for 'Download on the App Store', 'GET IT ON Google Play', 'Windows Store', and a Facebook-like button 'To se mi líbí 228 Sdílet'. A 'Tweet' button is also present.

To avoid recurring questions:

1. You can create videos from my animations and place them, for example on youtube.
2. You can also make screenshots from my animations and use them.

Physics at school - HTML5 (Physics Animations/Simulations)

Mechanics Gravitational field Mechanical vibrations and waves Molecular Physics and Thermodynamics Electrostatics Electric current Semiconductors
Electric current in liquids Current conduction in gases and vacuum Magnetic field Alternating current Optics Special relativity Atomic physics Nuclear physics
Mathematics

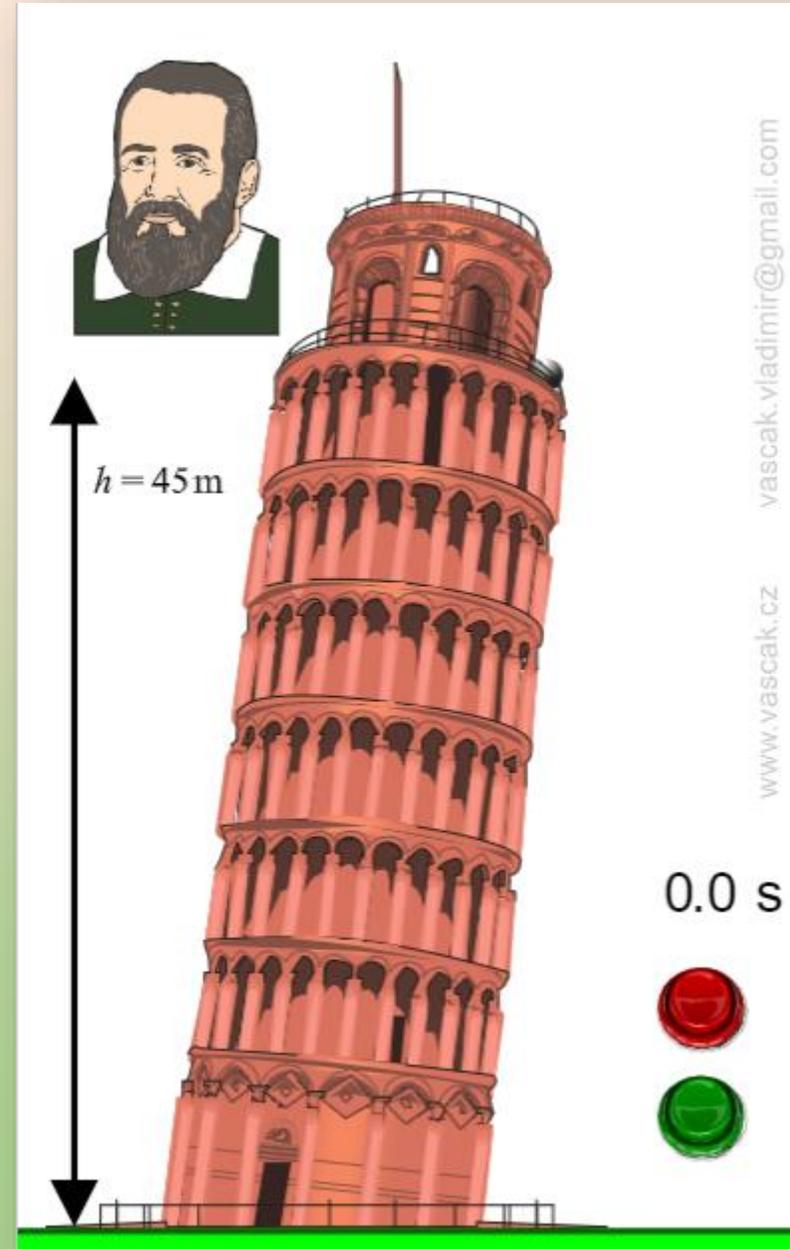
Five simulation thumbnails are visible:

- Inclined Plane**: A diagram of a block on an inclined plane with a ruler and a magnifying glass.
- Frame of reference**: A scene with a cyclist on a path, a magnifying glass, and a speedometer.
- Frame of reference**: A bicycle with a magnifying glass and a speedometer.
- Parallelogram of force**: A diagram showing two forces being added to find their resultant using the parallelogram rule.
- Vernier caliper**: A diagram of a vernier caliper with a magnifying glass and the equation $20 + 4 + 0.40 = 24.40$.

The browser's taskbar at the bottom shows open files: `clipart-gaming-4.jpg` and `cat-45762_1280.png`. A 'Show all' button is in the bottom right corner.

Contents:

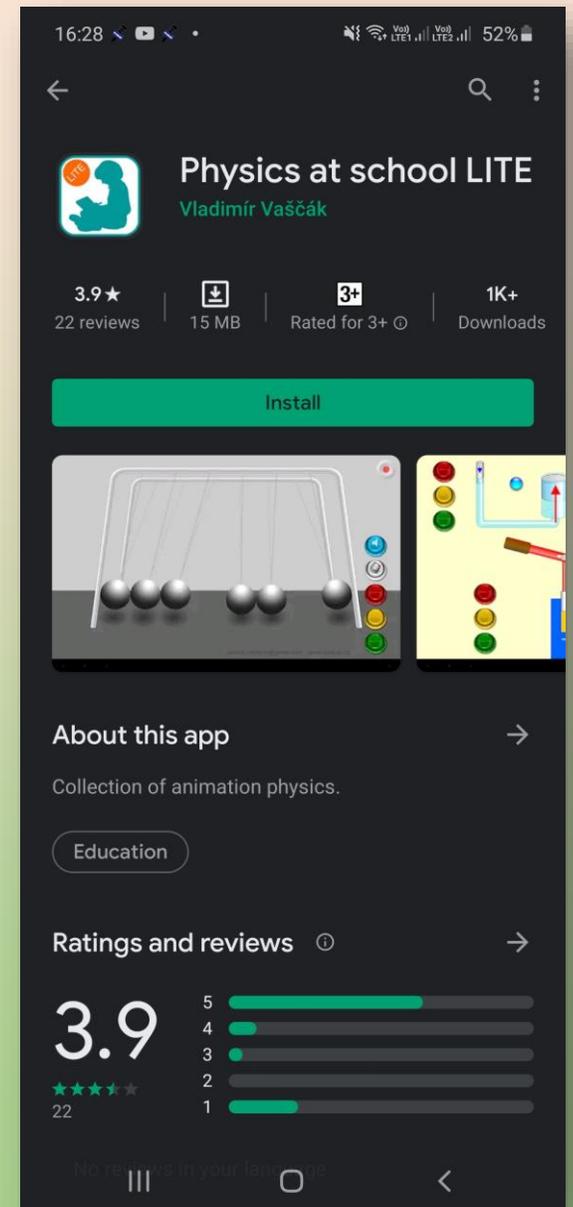
- Screw gauge
- Newton's First law
- Elastic collision
- Archimedes' principle
- Mechanical equilibrium 1,2 and 3
- Light reflection
- Ohms law
- Electromagnetic induction
- Solid angle unit
- Cathode ray
- Magnetic field
- Free fall



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Available in mobile platform in the name of
“Physics at school lite”.



Thank you