



## PhET Colorado science simulations

### Description

**It's a free website full of interactive simulations to learn in a fun, visual, and engaging way.**  
**What is PhET?**

PhET is a project from the University of Colorado that offers hundreds of free simulations in:

- Physics (forces, electricity, waves...)
- Chemistry (atomic structure, reactions...)
- Earth Science
- Mathematics
- Biology (genetics, ecosystems...)

The simulations are interactive: you can touch, move, test, change data and see what happens—just like in an educational video game.

### How do you use it?

1. Go to the website: <https://phet.colorado.edu/>
2. Choose the subject you're interested in (e.g., "Physics" or "Mathematics")
3. Click on a simulation and... start exploring!

You can use them directly online or download them to use offline.

### Examples of interesting simulations

- **Build an Atom** – [Link](#)  
Understand atomic structure and the periodic table of elements.
- **Forces and Motion** – [Link](#)  
Learn how forces act on an object.
- **Circuit Construction Kit** – [Link](#)  
Build a circuit with batteries, light bulbs, and switches!
- **States of Matter** – [Link](#)

Watch particles in action in solids, liquids, and gases.

- **Energy Forms and Changes** – [Link](#)

Understand the relationships between heat, temperature, and energy transformations.

### **Why is it useful?**

- Helps you visualize concepts that can sometimes be hard to understand
- Makes you learn by doing
- Can be used alone or with classmates
- Perfect for reviewing, practicing, or preparing a presentation

### **Do you need to register?**

No! You can use the simulations for free and without registration.

### **Can I use it on a tablet?**

Yes! Many simulations are mobile-friendly. Just use a modern browser (like Chrome or Firefox).

### **Category**

1. Senza categoria

### **Tags**

1. information\_technology
2. Science

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