

PhysicsKIT 4STEM

Promoting Gender Equality in Science

2020-1-FR01-KA201-080433

Modules Developed

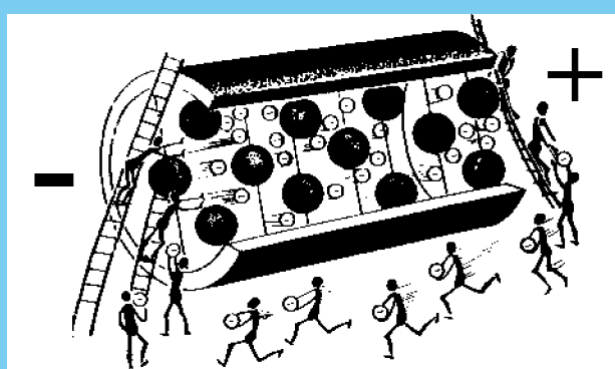


Forces and Motion

Motion and forces are everywhere in our world. From a chair we pull to sit down, to a bridge that stands still and from a ball we kick and flies into the air, to Earth itself as a planet. This module offers an introduction to two fundamental principles of physics. These principles have defined the subject of physics which, without them, we would not be able to understand life itself.

Conservation of Energy and Momentum

This module proposes an introduction to the concepts of conservation of energy and momentum. Energy is, like the principles and concepts presented in this curriculum, very important when it comes to the knowledge of our universe.

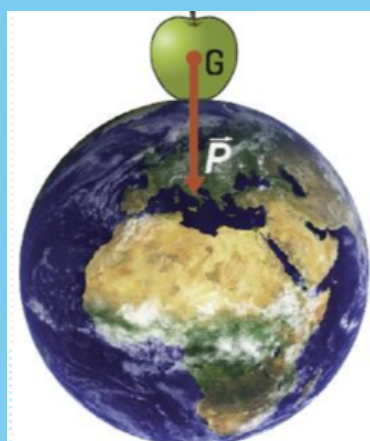
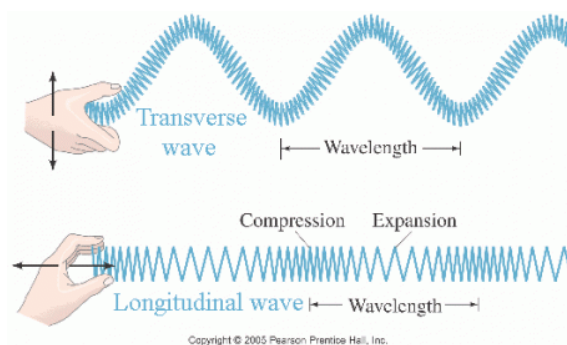


Electricity and Magnetism

In this module, the students will be able to correctly use the vocabulary and terms used in electricity and understand the basic laws and properly apply the formulas to study an electrical system.

Waves

In this module, the students will learn about waves and the differences between its types. Also, the theory of how waves travel and behave when traveling through different mediums will be explored. The learning material will cover wave equations, longitudinal waves, transverse waves, as well as their properties, similarities and differences.



Gravity

Students will understand gravity as a force that we cannot see and that pulls things towards the object's center. They will recognize that this force can pull through big distances and that it has an effect on every object that has a mass, including our planet. They will also realize that the gravitational pull is as much stronger as an object that has a greater mass or as close to each other as two objects are.

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