

Physics: Grade 1, Semester 1

Matter, Form and Function

Big Idea: For a structure to be sustainable, it must withstand different forces.

PH.1.01 - Students will be able to make measurements precisely and accurately using a variety of measurement tools. (Week 01 - Week 02)

Concepts:

- A. Physics as experimental science

Physics is divided in to two entities: experimental Physics and theoretical Physics.

A theoretical physicist uses mathematics to write proofs for the 'thought experiments' he/she thinks of. Sometimes completely new types of mathematics are invented to prove the theories. In order to quantify General Relativity, Einstein had to use a type of mathematical space called Riemann space and the mathematics associated with Riemann space.

An experimental physicist also has hypotheses and theories, but they devise actual experiments to show these hypotheses are true (or not).

General Relativity is one example where it is shown true by both mathematics and by experiments. The latest experiment to show General Relativity is true is the satellite "Gravity Probe B", which orbited the earth (still is) for a couple of years gathering data on what's called "frame dragging" -- which is a prediction from General Relativity math that had not been shown by experiment (until now).

Large particle accelerators, like CERN in Europe, allow experimental physicists to do experiments on high-energy particles, sub-atomic particles, and sub-sub atomic particles.

• B. Systems of measurements and standards



The English system of measurement grew out of the creative way that people measured for themselves. Familiar objects and parts of the body were used as measuring devices. For example, people measured shorter distances on the ground with their feet.

They measured longer distances by their paces (a "mile" was a thousand paces). They measured capacities with common household items such as cups, pails, and baskets. The word *gallon* comes from an old name for a pail. Unfortunately, these creative measuring devices allowed different measurements to be obtained when different people measured the same items. Eventually, a standard was set so that all measurements represented the same amount for everyone

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Disha Experts

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