The physical Universe contains SPACE, TIME, MATTER & ENERGY.
The physical Universe is what scientists study. Is the universe only physical? What do you think?

**SPACE is the place for everything.**
Is there a place we might call “No-Where”? What do you think?

**TIME is the when for everything.**
Is is said that “TIME marches on” and “TIME flies”.
Does TIME go only in the forward direction? What do you think?

**MATTER is anything that occupies SPACE and has MASS.**
Mass is what gives matter its inertia and momentum.
Two pieces of matter cannot occupy the same space at the same time.
What kinds of things can occupy the same space at the same time? What do you think?

**ENERGY is the ability to WORK.**

**WORK happens when a FORCE is applied over a DISTANCE to make something move.**

**A FORCE is just a PUSH or a PULL.**
Sometimes you must look carefully to see the PUSH or PULL.

There are many kinds of ENERGY which use many kinds of FORCE.
(mechanical, electrical, chemical, magnetic, thermal, nuclear, gravitational, electromagnetic)