



MATERIA : MODULI DI FISICA IN CLIL

CLASSE : 5 S

ANNO SCOLASTICO : 2020/2021

MODULO 1. Electromagnetic waves

Maxwell's equations. Electromagnetic waves production. Velocity of electromagnetic waves. The profile of electromagnetic waves. The electromagnetic spectrum and properties.

MODULO 2. The special relativity

Galilean-Newtonian relativity. Galilean-Newtonian relativity. Michelson-Morley experiment. Postulates of the special theory of relativity. Simultaneity. Time dilation. Length contraction and velocity composition. Relativistic momentum. Equivalence between mass and energy.

MODULO 3. Introduction to quantum mechanics

Blackbody radiation. Planck's quantum theory. Photons and the photoelectric effect.

Paderno Dugnano, 7 Maggio 2021.

Gli studenti

Il Docente

Prof.ssa Sara Gardi

