

Light Dancing

By Angela Challis
Original Idea by Jana Shumway

Grade 6th

Science/Dance

Objective:

In a 45-minute class 6th grade students will explore the characteristic of visible and invisible light through locomotor steps.

6th Grade

Science

STANDARD VI: Students will understand properties and behavior of heat, light, and sound.

Objective 2:

Describe how light can be produced, reflected, refracted, and separated into visible light of various colors.

Dance

Standard 1

The student will identify and demonstrate knowledge of the body and movement skills in performing dance.

Objective 2

Identify and execute locomotor steps.

Materials:

Colored cones, red, orange, yellow, green, blue, indigo, and violet.

Music:

Bon'yeu by Les Colocs

Warm up/ Introduction:

Light Refracts: Have students start by walking forward in straight direction. When they get to the wall keep walking as if they could keep going forever. Have them open their arms when they get to the wall.

Light is absorbed: Now skip in straight direction when they get to the wall pretend to be absorbed by the wall.

Light Reflects: Now leap in a straight direction when you get to the wall you bounce off the wall with the same angle of incidence.

Explore:

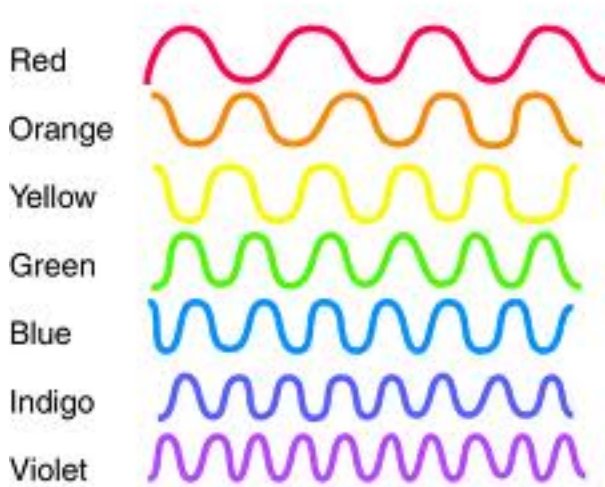
Explore axial movement: (stays in place) Stretching, Sinking, Pushing, Bouncing, Twisting, Bending, Slashing, and Kicking. Protons move with axial movements.

Sequence: Light *travels at a speed of 186,000 miles a second.*

Visible light:

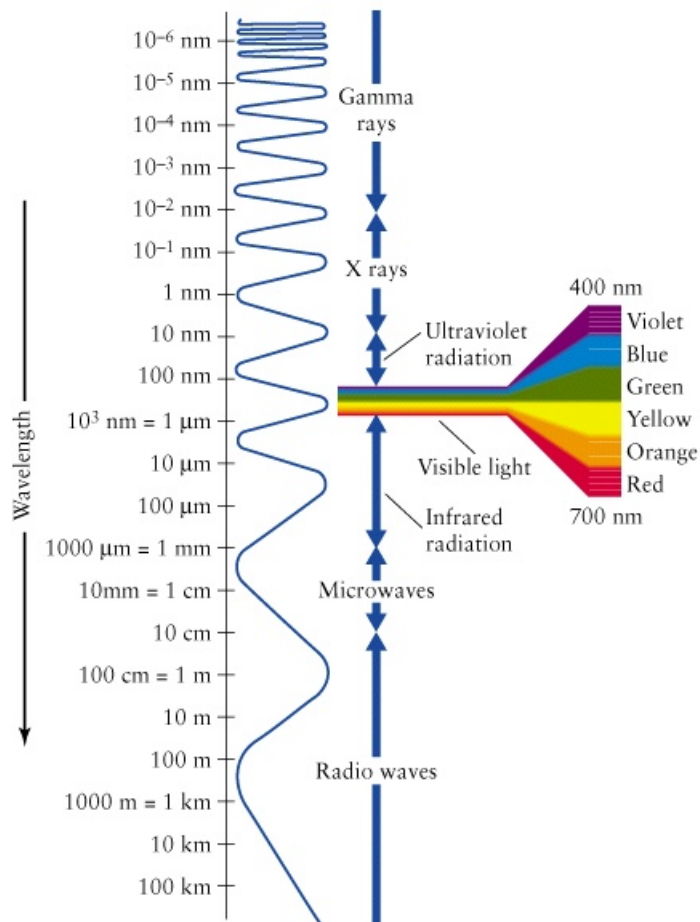
Set the cones on the floor.

Visible Light - Wavelength



Have 3 or 4 students per color. Red moves with big and slow steps, violet with tinny and fast steps.

Practice different locomotor steps., run, skip, gallop, leap, etc.



Invisible light:

Radio waves: carry sound and picture.

Microwaves: popping popcorn.

Infrared: Night vision.

(Visible light)

Ultraviolet: Sun tan

X rays

Gamma Rays: Kill cancer.

Perform:

Have students dance their favorite 3 sections from the lesson. Half watches, half dances.

Connect:

Why is light important in our lives?