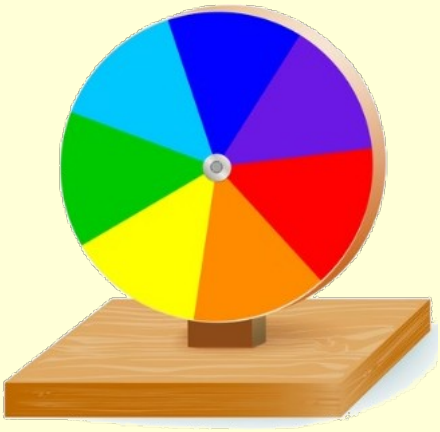
KUTTIPPURAM Sub dist.

Silent BellS

ഫസ്റ്റ്ബെൽ - അനുബന്ധ പഠനസഹായകസാമഗ്രി

Class: 10	Subject:physics	Date: 12/1/2021	worksheet No. 6.5	PLAY

Lesson & LO:VISION AND THE WORLD OF COLOURS



1 (a) In which colour does the Newton's disc appear when rotated fast? Give reason.

b) An image remains in the retina of our eye for a time interval of 1/16 second.What is this phenomenon called?

c) Give any two examples of persistence of vision.

2. When sunlight passes through the atmosphere, rays of light are reflected by the tiny particles and dust particles of the atmosphere.
a) Name this phenomenon.

3 (a) Do all the colours of sunlight undergo similar type of scattering?

b) Give an experiment to prove this.List out the materials required for this experiment.Explain the experimental procedure.

4 (a) Which colour of the sunlight undergoes maximum scattering?

b) Which colour of the sunlight undergoes least scattering?

c) What is the relation between scattering and wavelength?

d) How is the rate of scattering and the size of the particles related?

e) Under which circumstance, the scattering is same for all colours?