



Knowledge Summary

Year 7 Term 4 2023/24

Science Physics Module Light



Essential Questions/Knowledge

- How does light interact with materials.
- What is the speed of light?
- What are examples of specular and diffuse reflection?
- What happens when light is refracted?
- What is the difference between what happens to light when it goes through a convex lens and a concave lens?
- What are the parts of the eye?
- Name two problems that people can have with their vision.
- Describe problems people have with their eyesight.

How students will be assessed on their knowledge

- Daily retrieval
- In-class tasks
- Extended writing questions
- End of unit assessments

Questions/Knowledge to deepen understanding

- Predict how light will interact with different materials.
- Predict how light will reflect from different types of surface.
- Predict whether light will refract when it hits a surface.
- Explain how the eye forms an image.
- Explain how lenses correct vision.
- Use ideas about refraction to explain the action of lenses in glasses and contact lenses.

Key Concepts

- Light
- Reflection
- Refraction
- The Eye and Vision
- Colour

Tier 2 and 3 vocabulary linked to the unit

- Light
- Translucent
- Opaque
- Transparent
- Eclipse
- Reflects
- Refracts
- Convex
- Concave