

**Subject:** Science  
**Duration:** 2 x 40 mins  
**Unit Title:** Sense Organ (eye)  
**Focus Question:** How does the structure of the eye relate to its function?

**Objectives:**

**Pupils will:-**

1. Identify the parts of the outer eye.
2. Explain the functions of the parts of the outer eye in relation to its reaction to light.
3. Identify the parts of the inner eye and state their functions.
4. Draw a diagram of the outer and inner eye of the human being.
5. Draw a diagram of a cat's eye in dim light and bright light.
6. Infer from activity that lens or mirror can change the direction of light.

**Materials/Resources:** First Steps in Science bk. 6 pg 42-51  
Chart showing inner and outer eye  
Transparent bottle, water, flashlight, white and black paper.

**Key Concepts/Vocabulary:**

The outer eye consists of the lower and upper eyelids, eyelash, sclera, iris, and pupil.

The eye is protected by the eye socket and is held in place by six muscles.

The inner eye consists of the convex lens, vitreous and aqueous humor, retina, and optic nerve.

**Procedures/Activities:**

**Pupils will:-**

1. Guess the answer to this riddle: What cannot be replaced by a marble? Then discuss the importance and what can they identify in the outer part that is very important.

2. Examine a friend's eye without touching and make a list of what was seen. Then compare 2 or 3 person's eyes.
3. Read about the function of the outer eye parts (pg 43.). Then ask a friend to close their eyes while you count to 50 then observe any changes that took place. (read page 45)
4. Examine the diagram of the inner eye and give the functions of those parts and say how they are related.
5. Observe an experiment in (figure 2, pg 50), state what happened and conclude what process it could be compared to.

Assessment:

1. Draw and label diagrams of the outer and inner eye. Then say what part of the eye they prefer most and why.
2. Complete questions from Grade Six Achievement Test

Evaluation: