

Plan of work for

Subject: Science

Duration: 3 x 40 mins

Unit Title: Sense Organs (eyes and ears)

Focus Question: How does the structure of the eye relate to their function?

Objectives:

Pupils will:-

1. Recall the parts of the outer and inner eye and state their functions.
2. Infer that a lens/mirror will change the direction of light.
3. Summarize the process of seeing and compare it with the diagram of a camera.
4. Name two types of lens and say what happens to them when light pass through them.
5. Explain how humans adapt to limited/no vision.
6. Research the proper way to care for the eye.

Materials/Resources: First Steps in Science bk. 6 (pg 50-53; 55)

Magnifying glass

Grade Six Achievement – Science and Social Studies test papers

Procedures/Activities:

Pupils will:

1. In groups, answer riddles that relate to the function of parts of the inner and outer eye. (e.g.) I am a window that opens and closes in dim and bright light. Who am I? (pupil)
2. Observe experiment (figure 2, pg 50) which relates to the function of lens. Then define the term lens.

- In groups, do the following activities to find out what happens when light passes through convex lens.
- ✓ Examine a magnifying glass; describe the lens – its center and edge. Use it to look at words up close and far away, as well as the image it helps to form when reflecting light. (pg 52)
- 3. Identify two types of lens and say what happens when light from an object passes through it.

NB. A lens is a piece of curved glass that bends straight rays of light which pass through it. There are two types of lens: convex (bi-concave), concave.

4. Review the process of seeing by observing models of the process and identifying relevant parts of the eye. (pg 55)
 - Compare the eye with a camera and write down four similarities. (Observe and draw a diagram of a camera [pg 54])
5. Discuss why people wear glasses by conducting interviews. Read information about near sightedness and far sightedness. Then identify the lens that would correct the problem.

Assessment:

1. Research six ways how people can practice proper eye care.
2. Answer questions from Nelson's Assessment – Science
 - Test paper 1 – 28, 54
 - Test paper 2 – 61, 62
 - Test paper 3 – 64-60, 69, 70, 79

Evaluation: