

## Day 4 – Lenses

**Learning:** To show how and why we need lenses

### Group Time

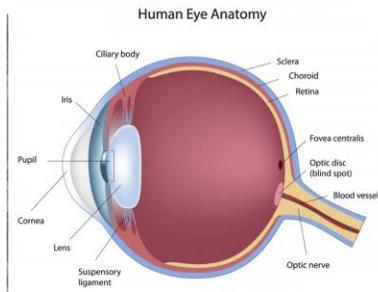
Show a pair of glasses, what is it? Glasses

Why are they called glasses? Because the lenses are made of glass

Why do people wear glasses? They cannot see properly

Why can't they see properly?

Show them a picture of the human eye and explain briefly how the eye works using the lens.



What technology has copied the eye's system to do a lot of things? Telescope, Microscope, camera, magnifying glass, reading glasses etc.

### Experiment Rotations

#### Table 1 – Magnifying glass

##### What you need

- Magnifying Glass x3
- Flowers, Insects etc

##### What to do:

- Using the magnifying glass try looking at small objects eg. Insects, spiders, etc

#### Table 2 - Camera

##### What you need

- Camera
- Zoom Lens
- Tripod

##### What to do:

- Children take photos of one another and view

#### Table 3 - Glasses

##### What you need

- Box of Glasses
- Miniature books

##### What to do:

- Try different glasses to see different effects

#### Table 4 - Microscope

##### What you need

- Microscope

- Slides
- Laptop

**What to do:**

- View different slides examining different things eg. Fabric, writing, leaf etc

**Table 5 – Slide Projector**

**What you need**

- Slides
- Slide projector

**What to do:**

- Show different slides (small), then project onto wall using projector.

**Table 5 – Binoculars & Telescope**

**What you need**

- Binoculars x3

**What to do:**

- Look at scenery using binoculars, what can you see that you cannot without binoculars.

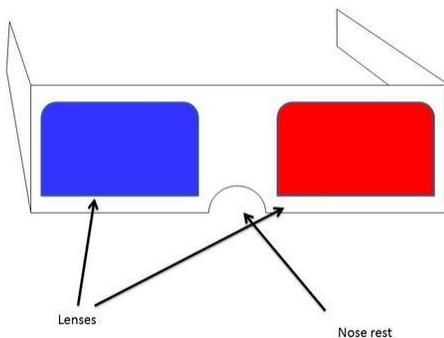
**Craft make 3D Glasses for tomorrow’s lesson**

**What you need**

- Cardboard glasses
- Red & Blue cellophane
- Glue sticks
- Felts, coloured pencils
- scissors

**What to do:**

- Glue the cellophane onto glasses; make sure there is two layers each side.



- Decorate glasses
- Keep glasses for tomorrow’s lesson.