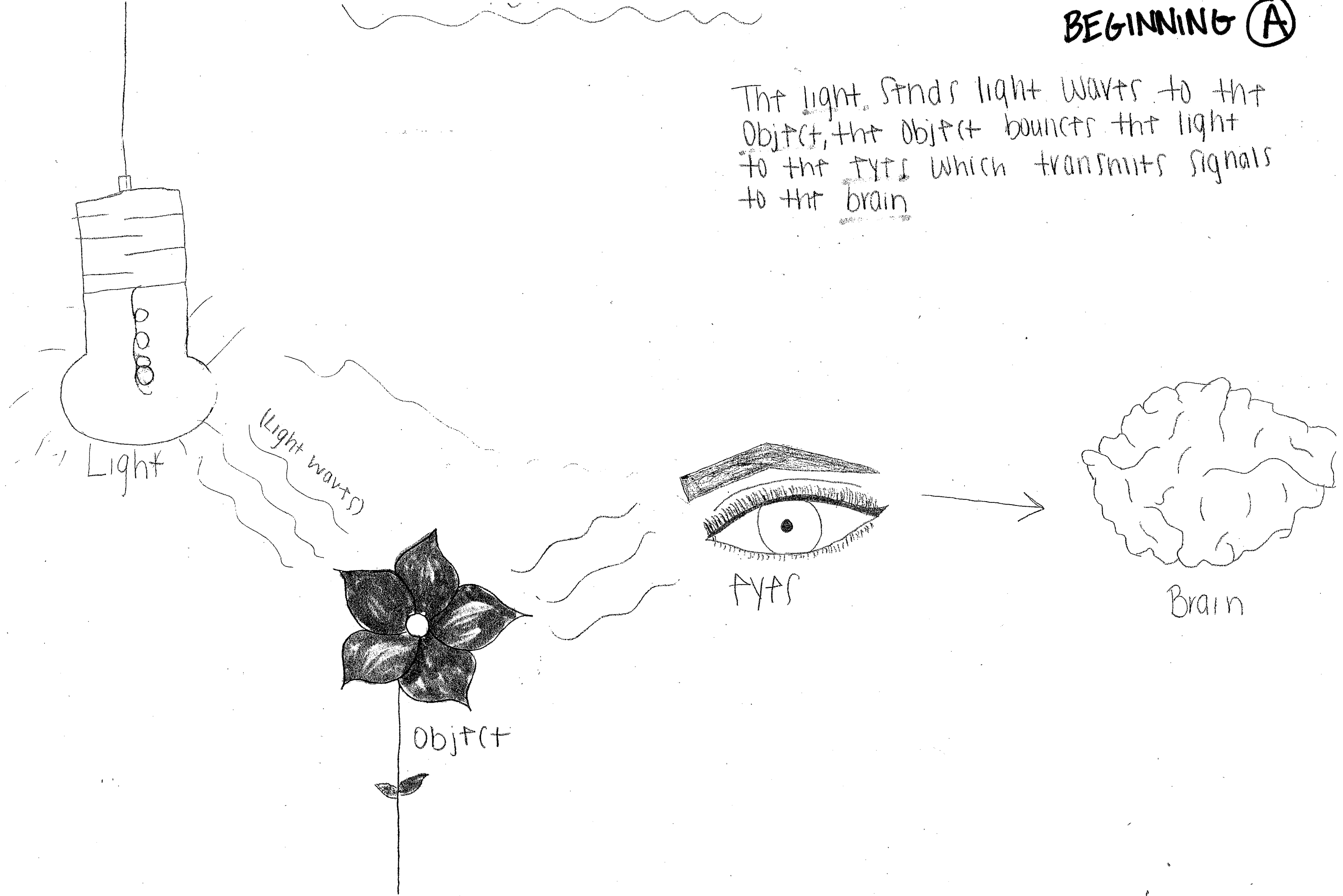
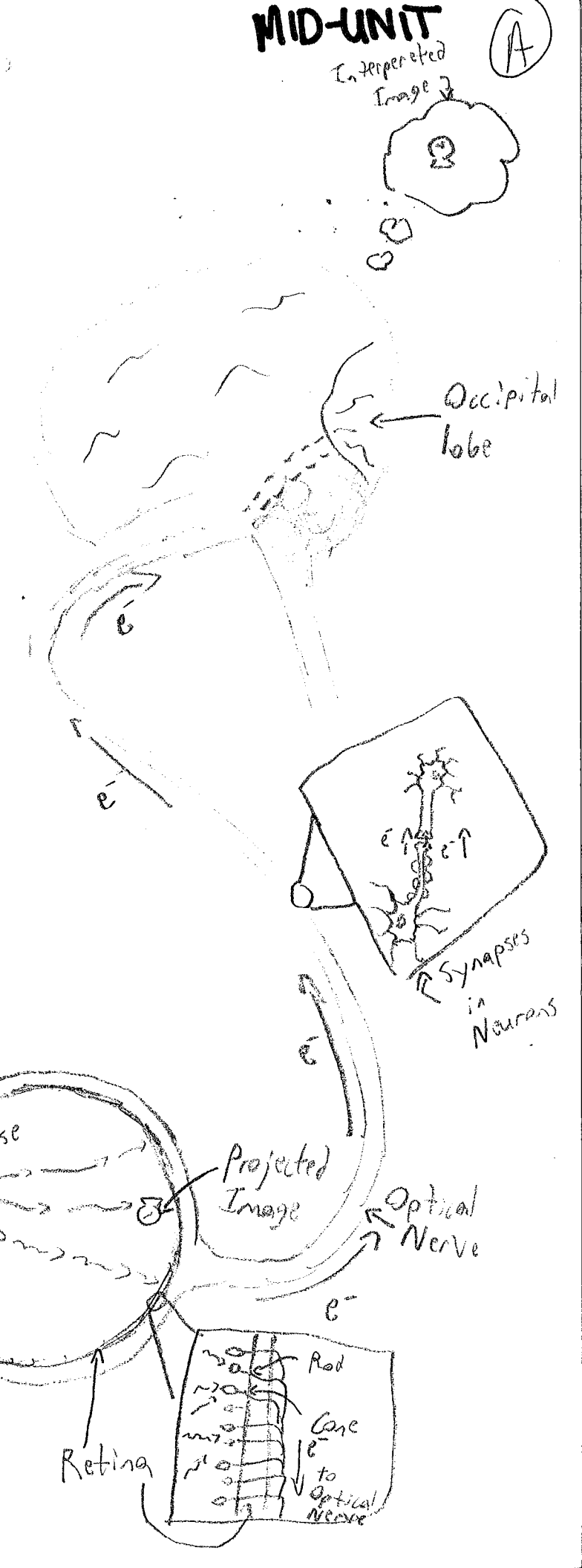
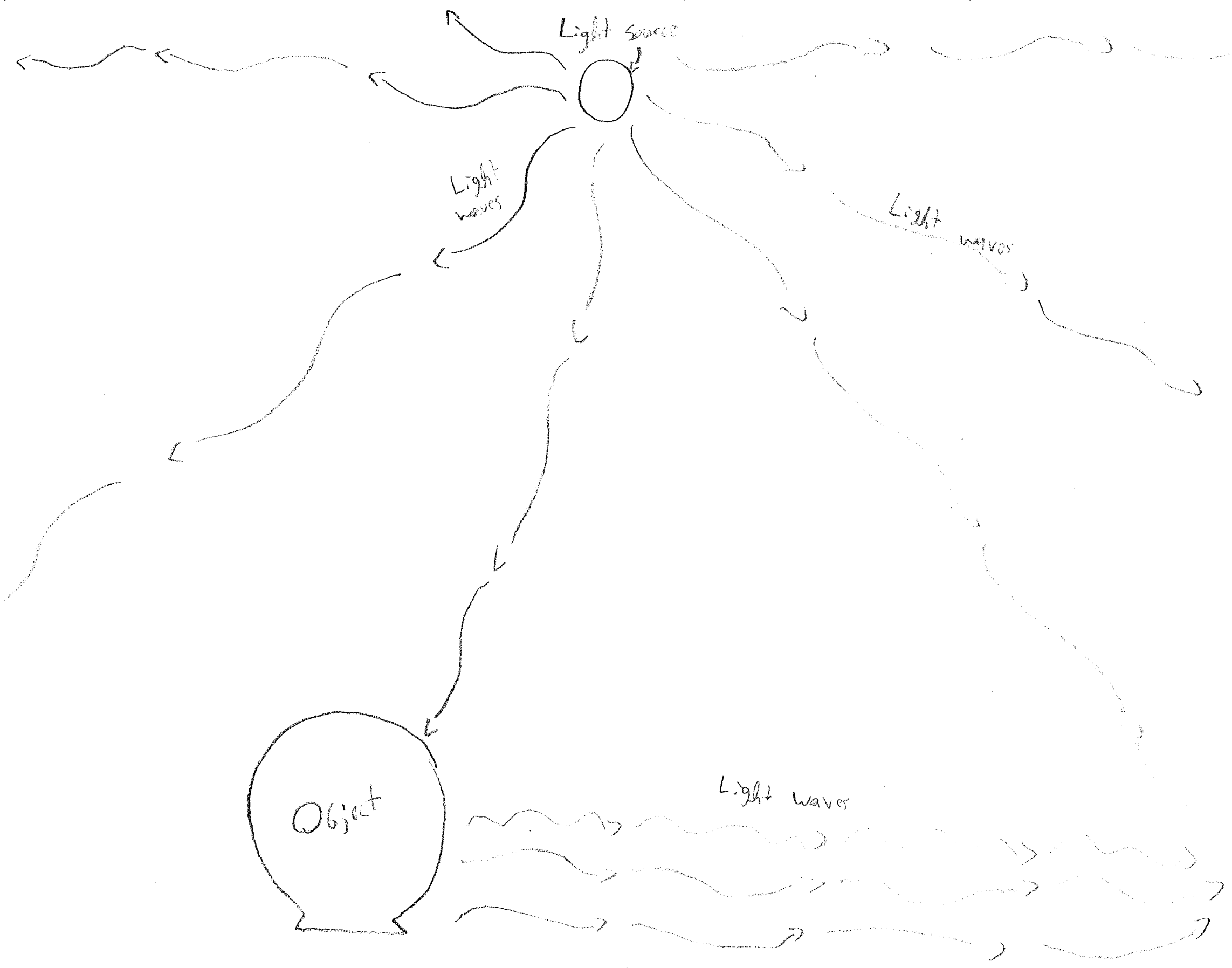


# BEGINNING (A)

The light sends light waves to the object, the object bounces the light to the eyes which transmits signals to the brain

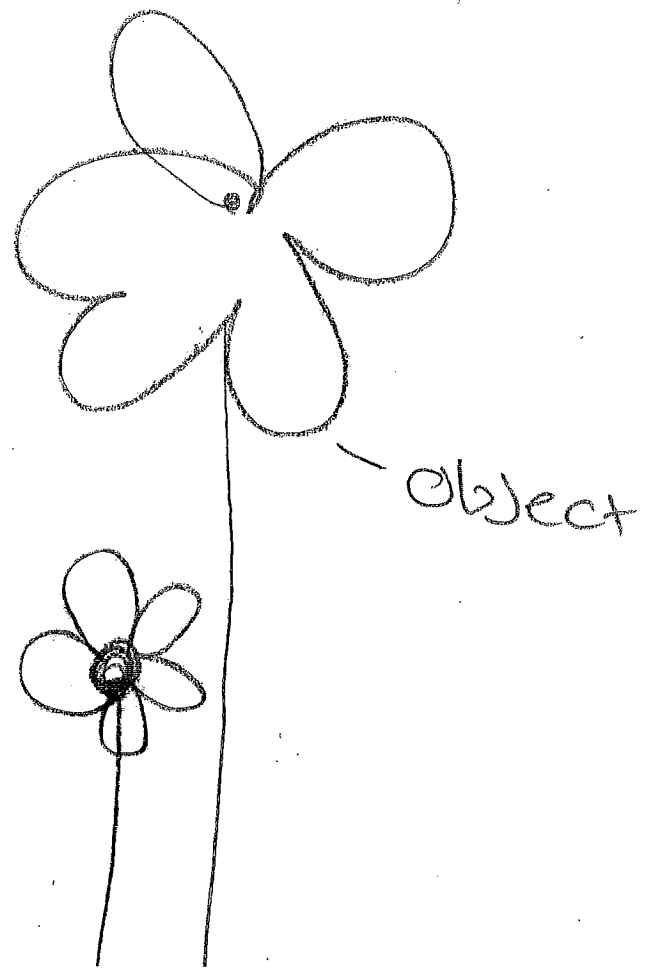
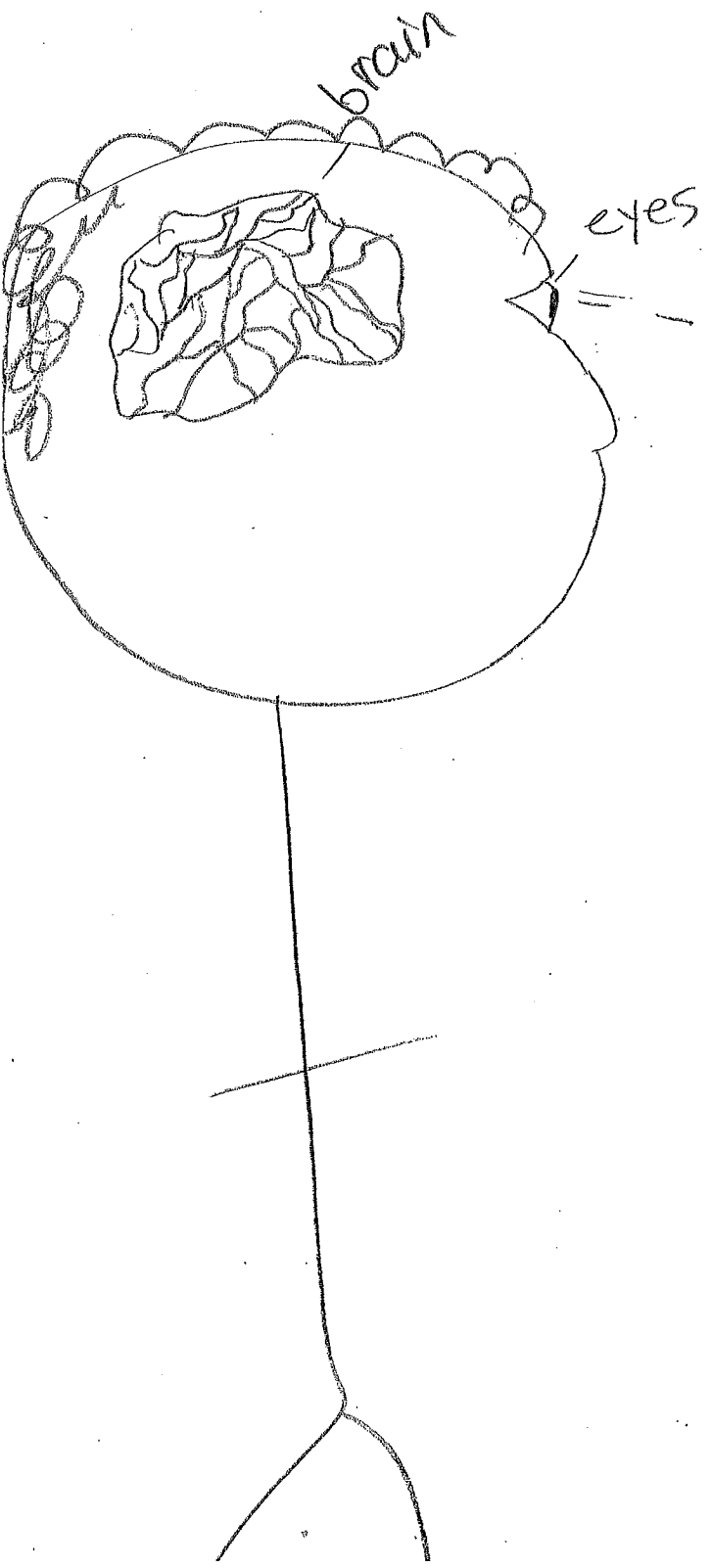




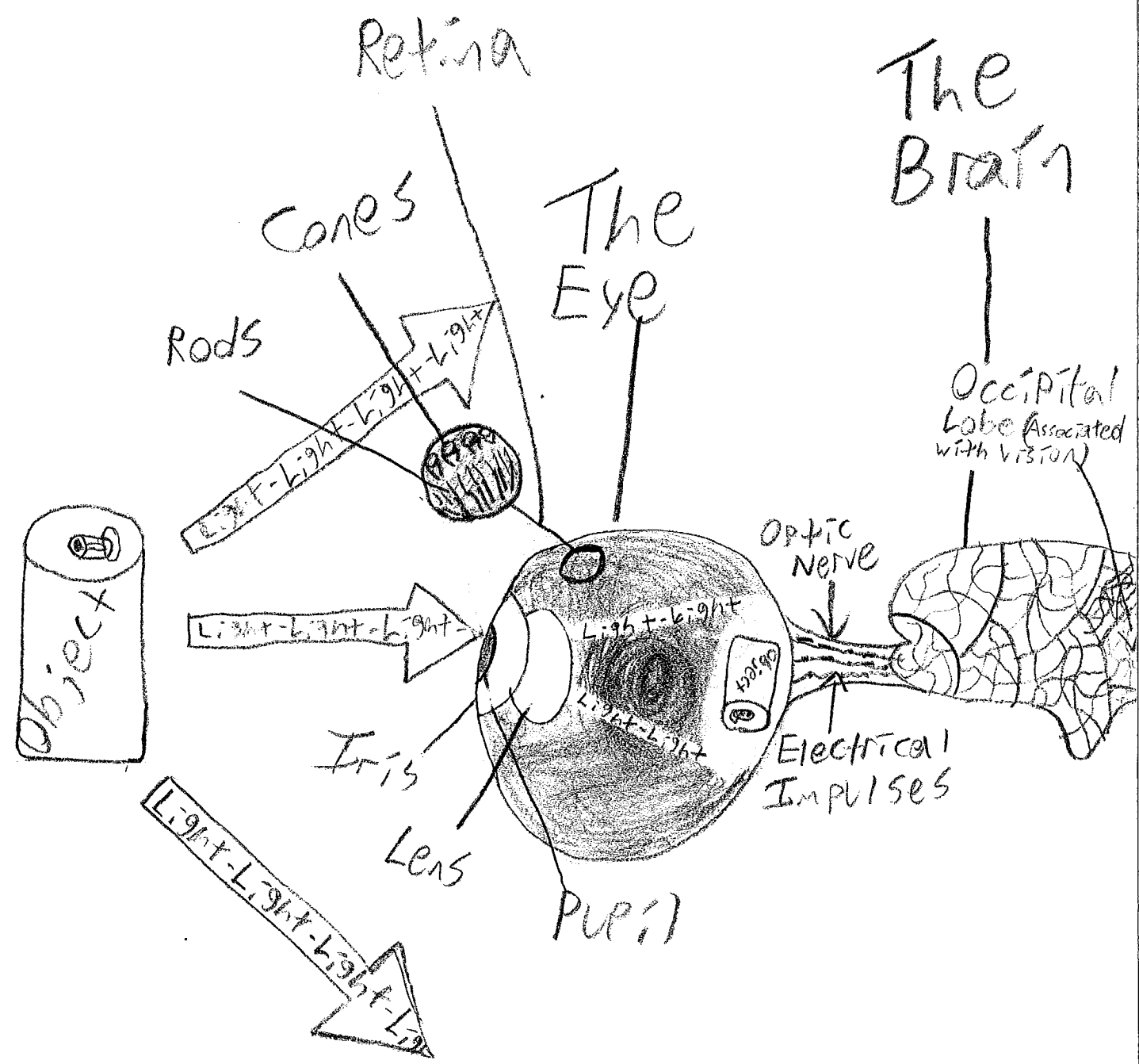
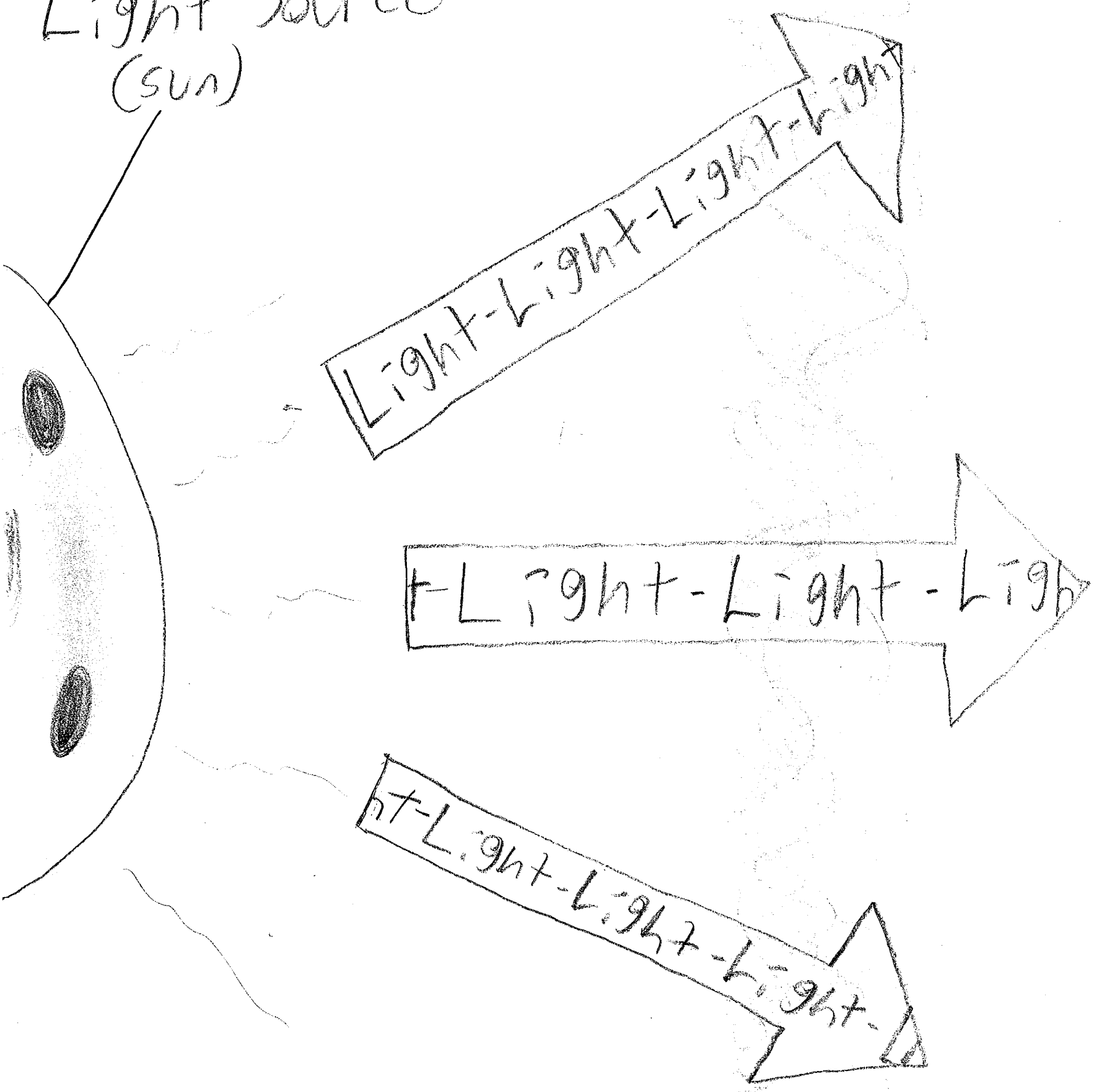
BEGINNING

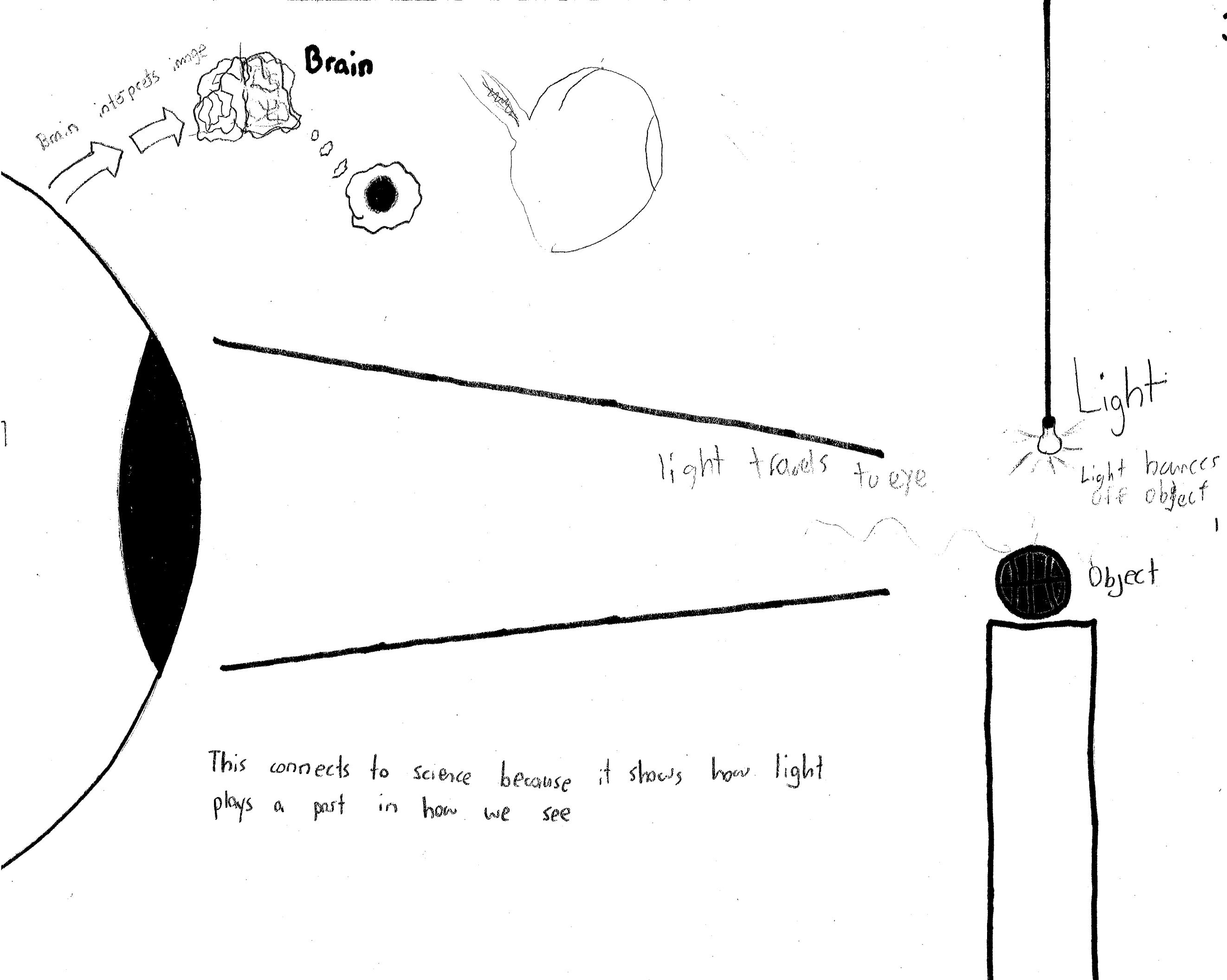
(B)

light  
↓



Light Source  
(sun)





light travels to eye

Light

Light bounces off object

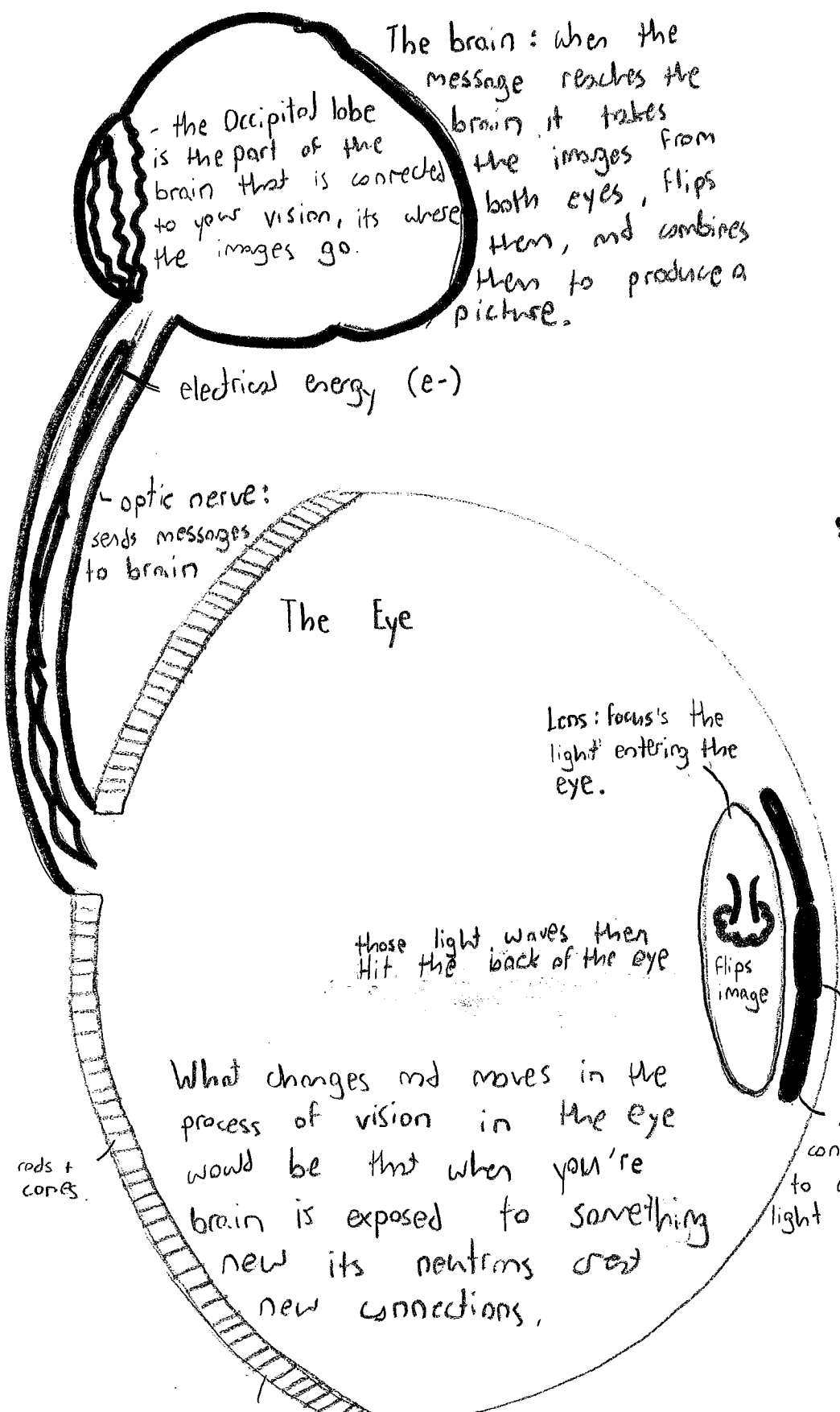
Object

Brain

Brain interprets image

This connects to science because it shows how light plays a part in how we see

# MID UNIT



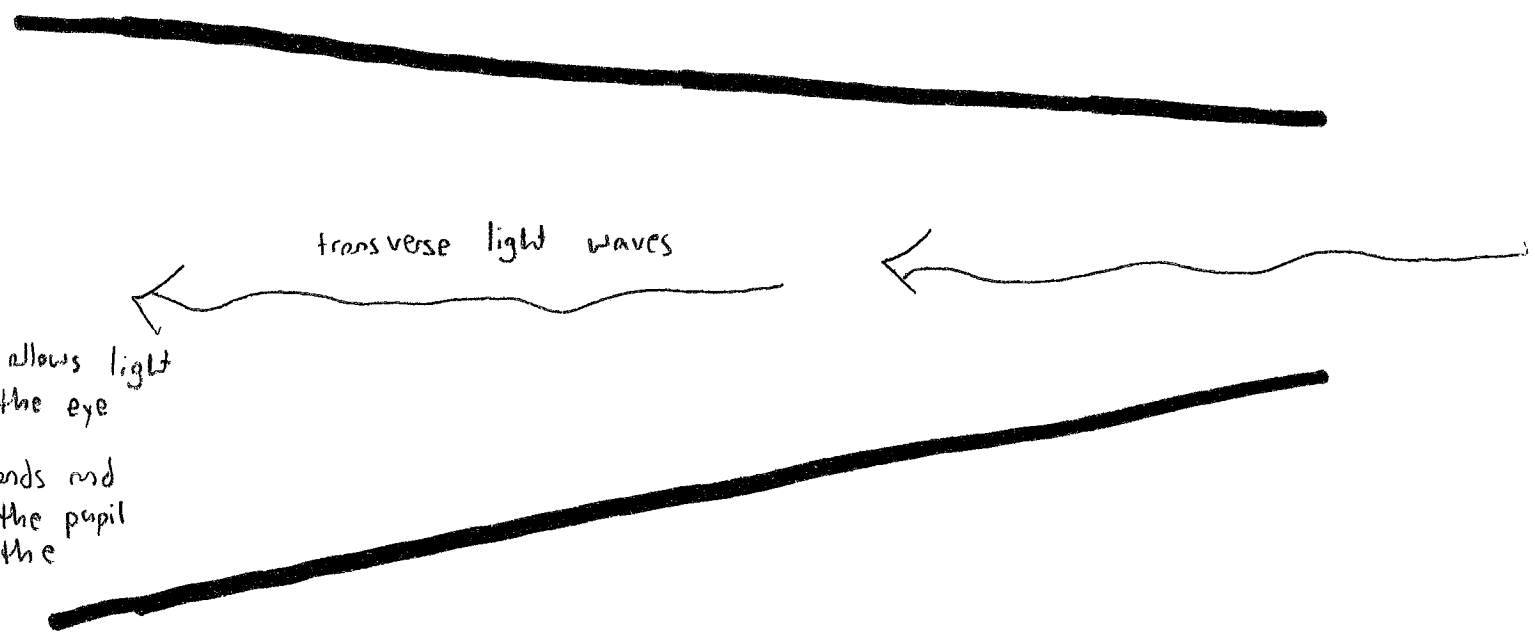
In class using the light box, I conducted an experiment where we looked in a dark box with a dim inside, we couldn't see it at first but when we opened a flap on the side and let light in, we were able to see it.

- Input: the transverse light waves coming directly from the sun to the eye and bouncing off the object
- Flow: the light waves passing through the pupil and lens, then sending a message through the optic nerve to the brain.
- Output: Your brain piecing the pictures together and creating an image

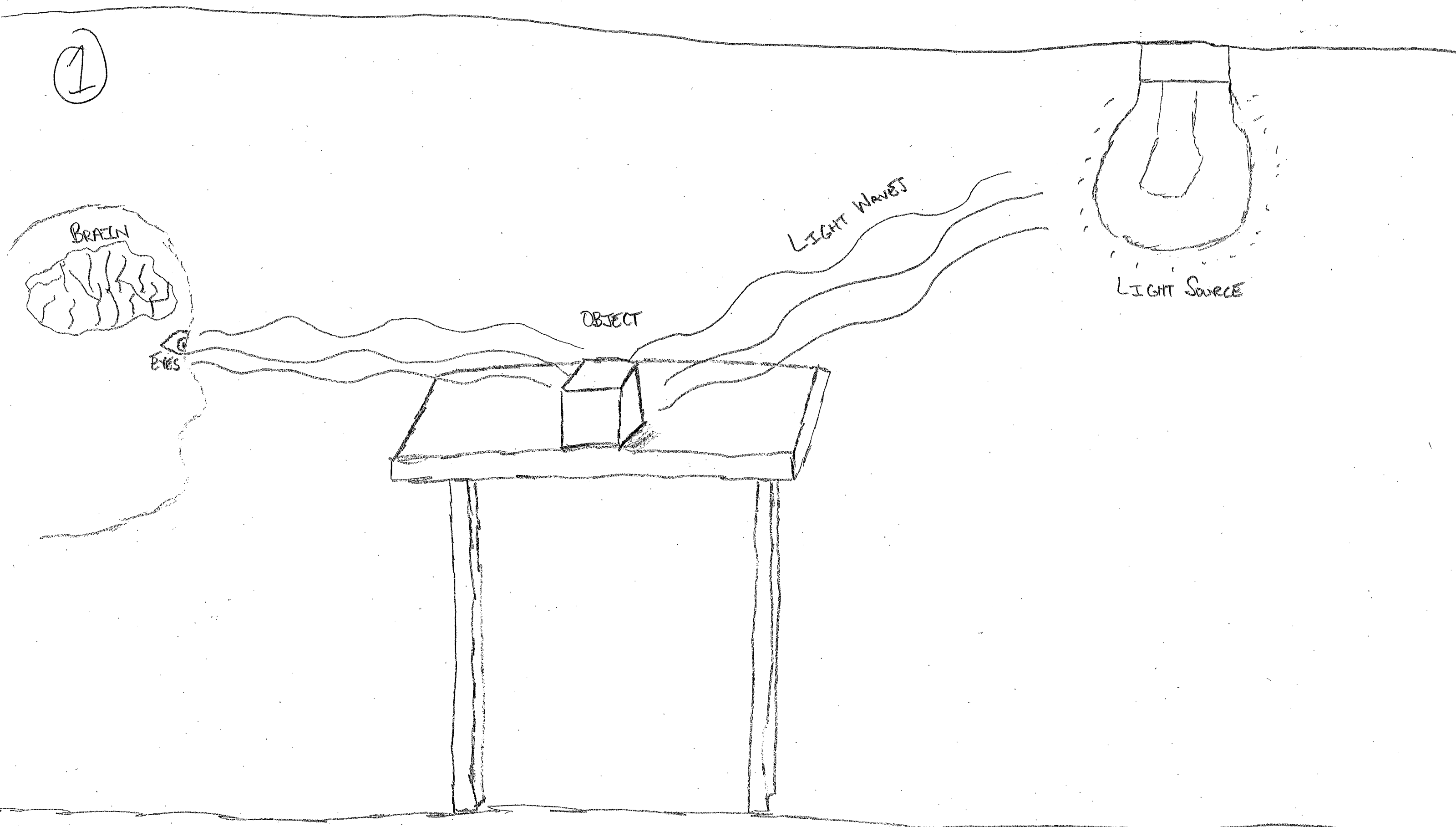
some light goes directly to the eye

Step 1. Source of light: In this case its the sun. Light is radiant energy that travels in transverse waves

Step 2: the object. In this case its a tree. the light bounces off the tree and enters the eye



(1)



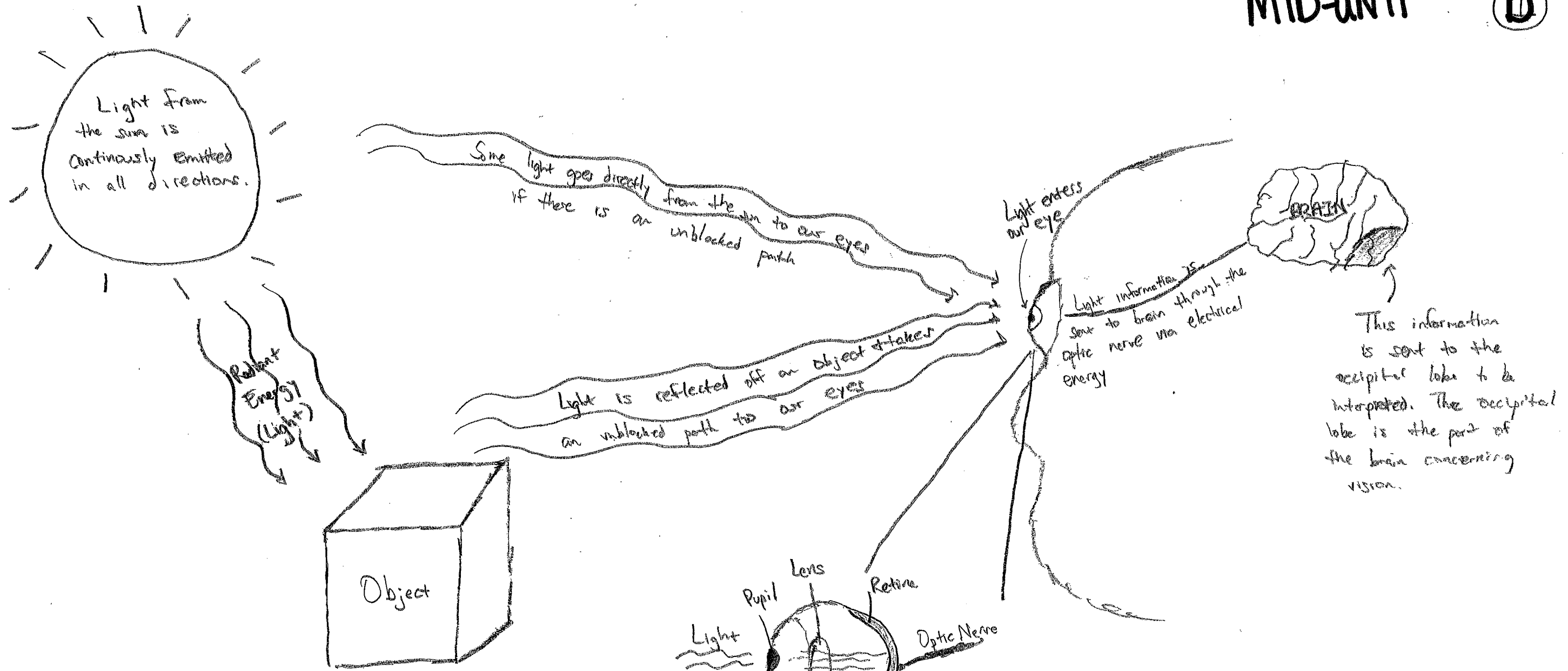
BRAIN

EYES

OBJECT

LIGHT WAVES

LIGHT SOURCE



THE SYSTEM

Input: Light from the sun bounces off an object & enters our eye.

Flow: Light moves through the pupil & lens & is received by the retina.

Output: The retina gives this information to the optic nerve, which transmits it to the brain through electrical impulses

MODEL OF EYE (ENLARGED)

Light passes through the pupil into the lens. The lens focuses the light on the retina. The retina receives the light & gives the information to the optic nerve. The optic nerve sends that information to the brain, where it is received & interpreted.

KEY COMPONENTS

Light → Object → Pupil → Lens → Retina → Optic Nerve → Brain