

# How do we see?

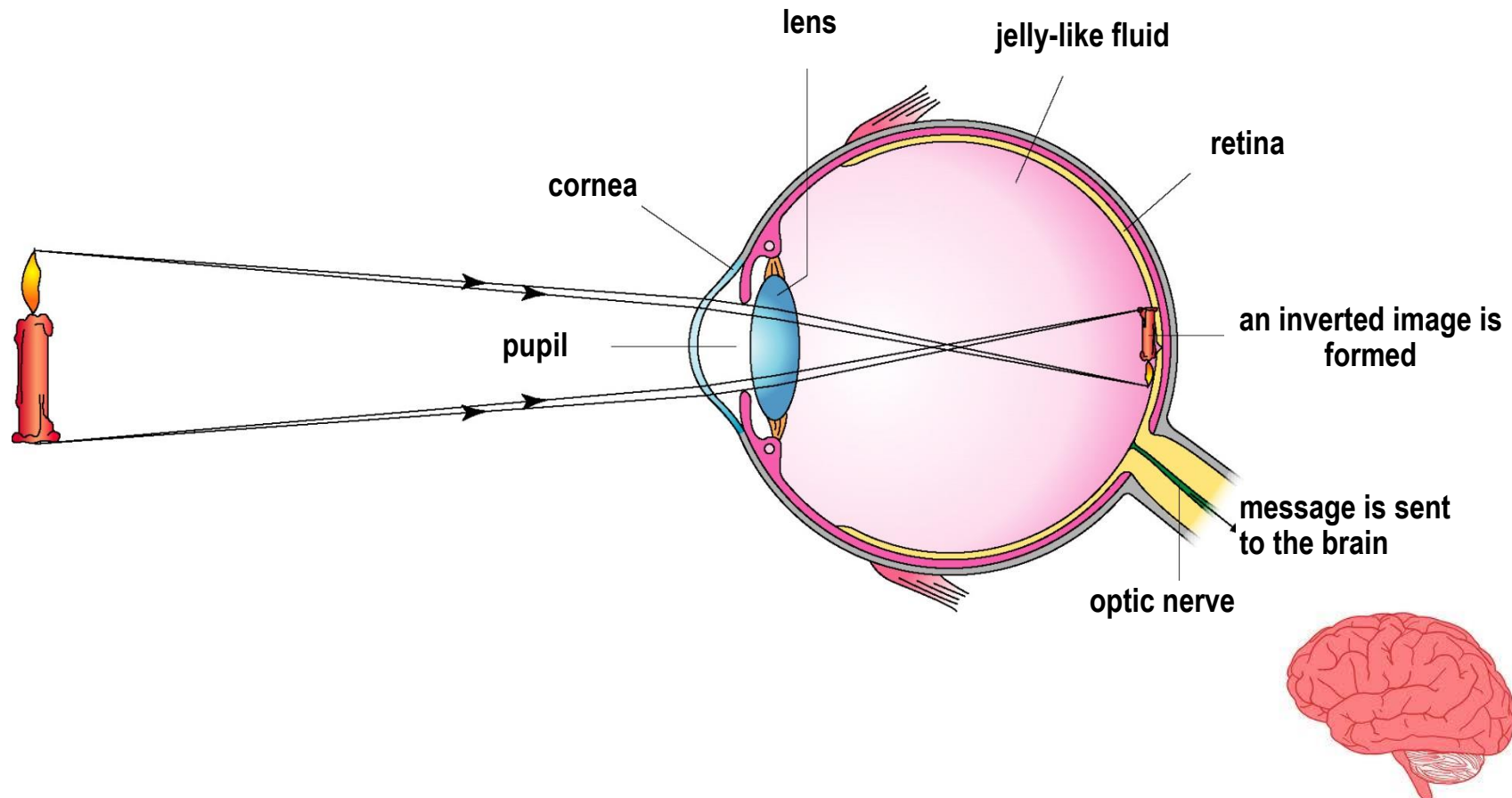
1

By the end of the lesson, you should be able to:

- name different parts of our eyes
- understand and explain the process of seeing.

# How do we see?

2



# How do we see?

3

2. The cornea, the lens and the jelly-like fluid of the eye focus the light onto the retina.

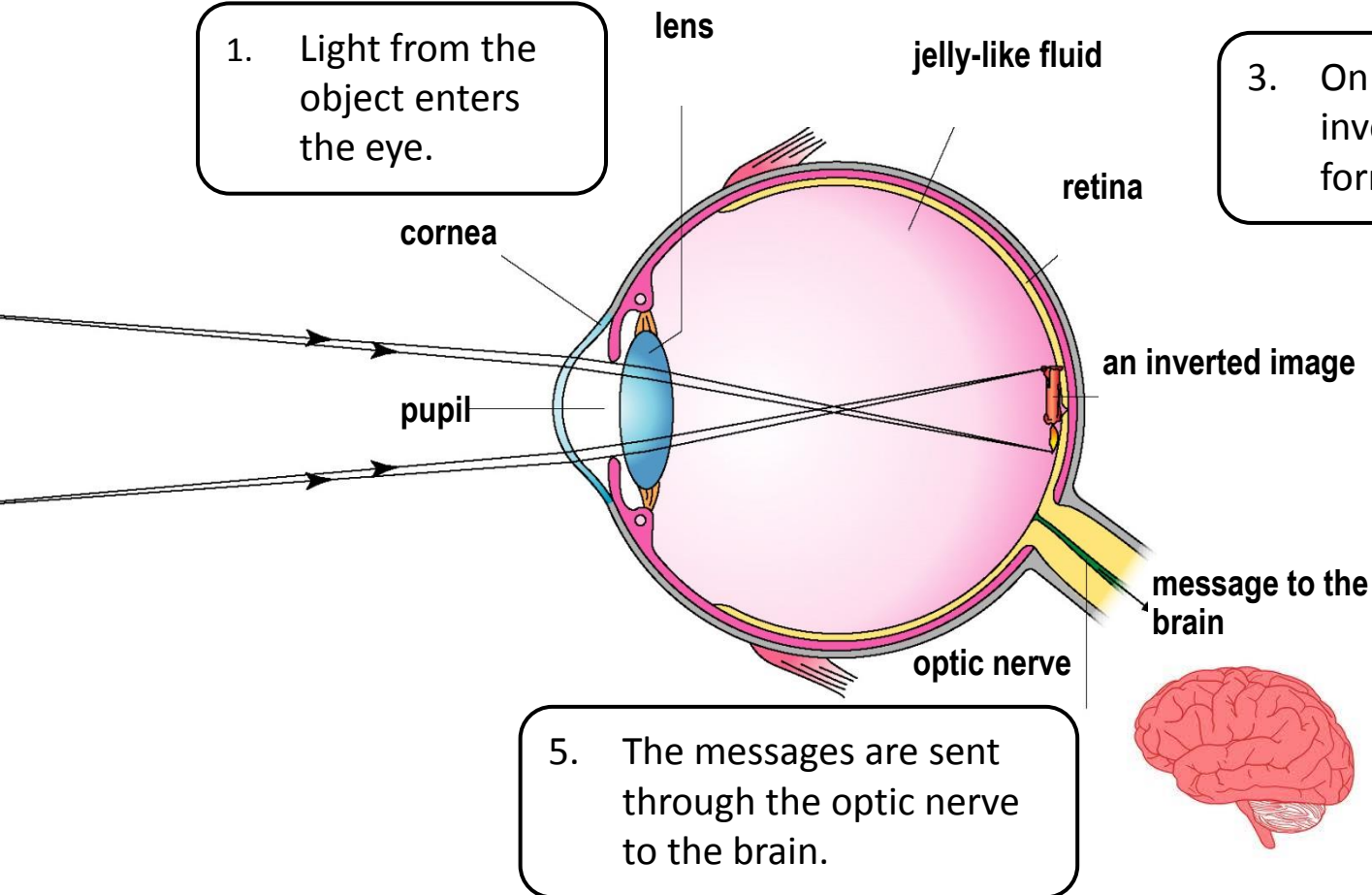
1. Light from the object enters the eye.

3. On the retina, an inverted image is formed.

4. The inverted image stimulates the light-sensitive cells to produce messages.

5. The messages are sent through the optic nerve to the brain.

6. The brain interprets the message as an upright object.



# How do we see?

4

1. Light from the object enters **the eye**.
2. **The cornea, the lens and the jelly-like fluid of the eye** focus the light **onto the retina**.
3. **On the retina, an inverted image** is formed.
4. **The inverted image** stimulates the light-sensitive cells to produce **messages**.
5. **The messages** are sent through the optic nerve to **the brain**.
6. **The brain** interprets the message as **an upright object**.

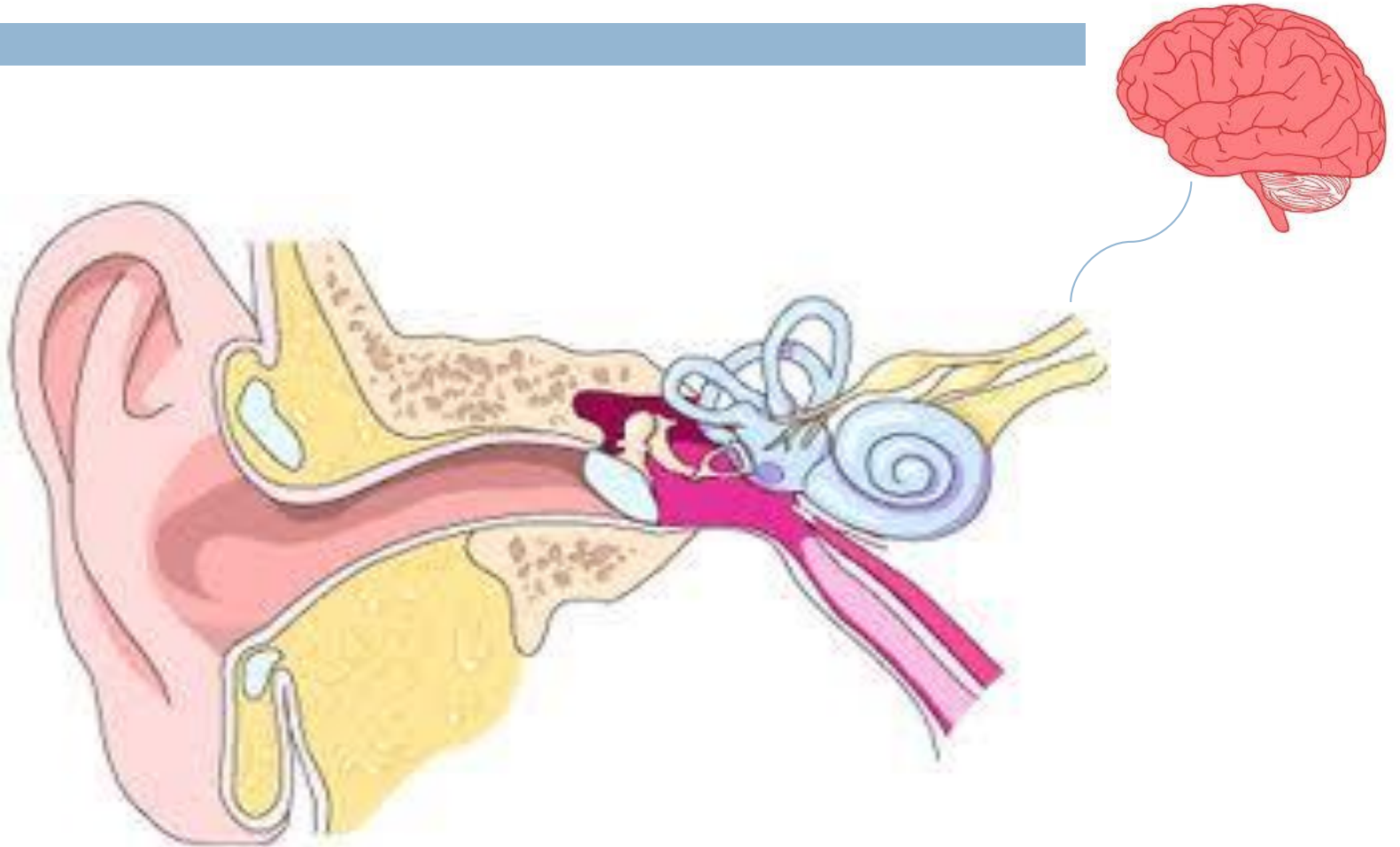
# How do we hear?



By the end of the lesson, you should be able to:

- name different parts of our ears
- understand and explain the process of how our ears detect sounds.

# How do we hear?



# How do we hear?

- The pinna \_\_\_\_\_ the sound waves.
- The sound waves \_\_\_\_\_ by the ear canal to the eardrum.
- The \_\_\_\_\_ is hit by the sound waves and it vibrates.
- The vibrations \_\_\_\_\_ by the \_\_\_\_\_ and \_\_\_\_\_ to the cochlea.
- The \_\_\_\_\_ changes the vibrations into messages.
- These messages are sent by the \_\_\_\_\_ to the brain
- The brain \_\_\_\_\_ the messages as sound.

# How do we hear?

7. The brain interprets the messages as sound.

1. The pinna collects the sound waves.

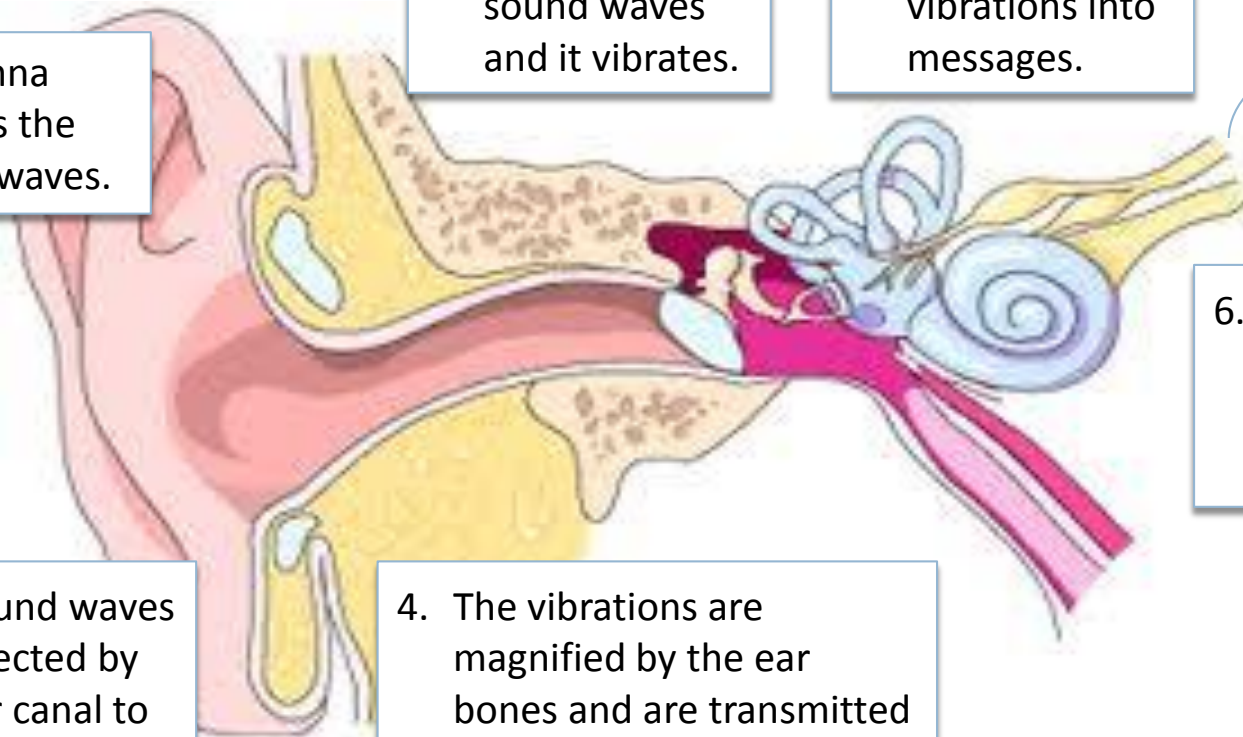
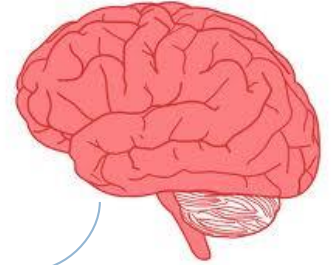
2. The sound waves are directed by the ear canal to the eardrum.

3. The eardrum is hit by the sound waves and it vibrates.

4. The vibrations are magnified by the ear bones and are transmitted to the cochlea.

5. The cochlea changes the vibrations into messages.

6. These messages are sent by the auditory nerves to the brain.





# How do we hear?

1. The pinna collects **the sound waves**. 2. **The sound waves** are directed by the ear canal to **the eardrum**. 3. **The eardrum** is hit by the sound waves and it **vibrates**. 4. **The vibrations** are magnified by the ear bones and are transmitted to **the cochlea**. 5. **The cochlea** changes the vibrations into **messages**. 6. **These messages** are sent by the auditory nerves to **the brain**. 7. **The brain** interprets the messages as **sound**.

# How do we hear?



Challenging Question:

- I recorded myself talking but I found that it sounds very different from when I actually talk.
- Why?