



Name: _____

Class: _____

Student worksheet

3.1 Receptors detect stimuli

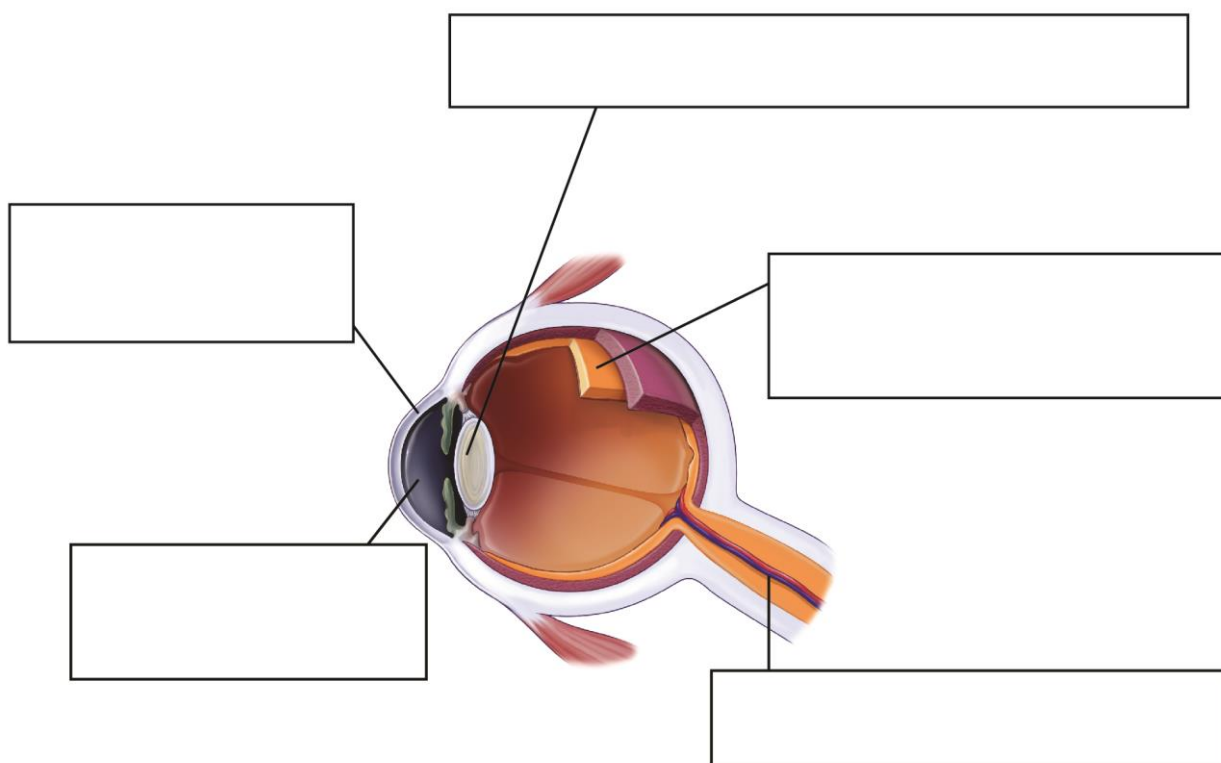
Pages 42–45 and 188

Sensory organs

- 1 How are stimuli and receptors related to one another?

- 2 What are the 5 primary sense organs?

- 3 Label the structures and explain their function on the diagram of the eye below and, using a red pen, draw the path that light takes through the eye.



- 4 What is sound made up of?

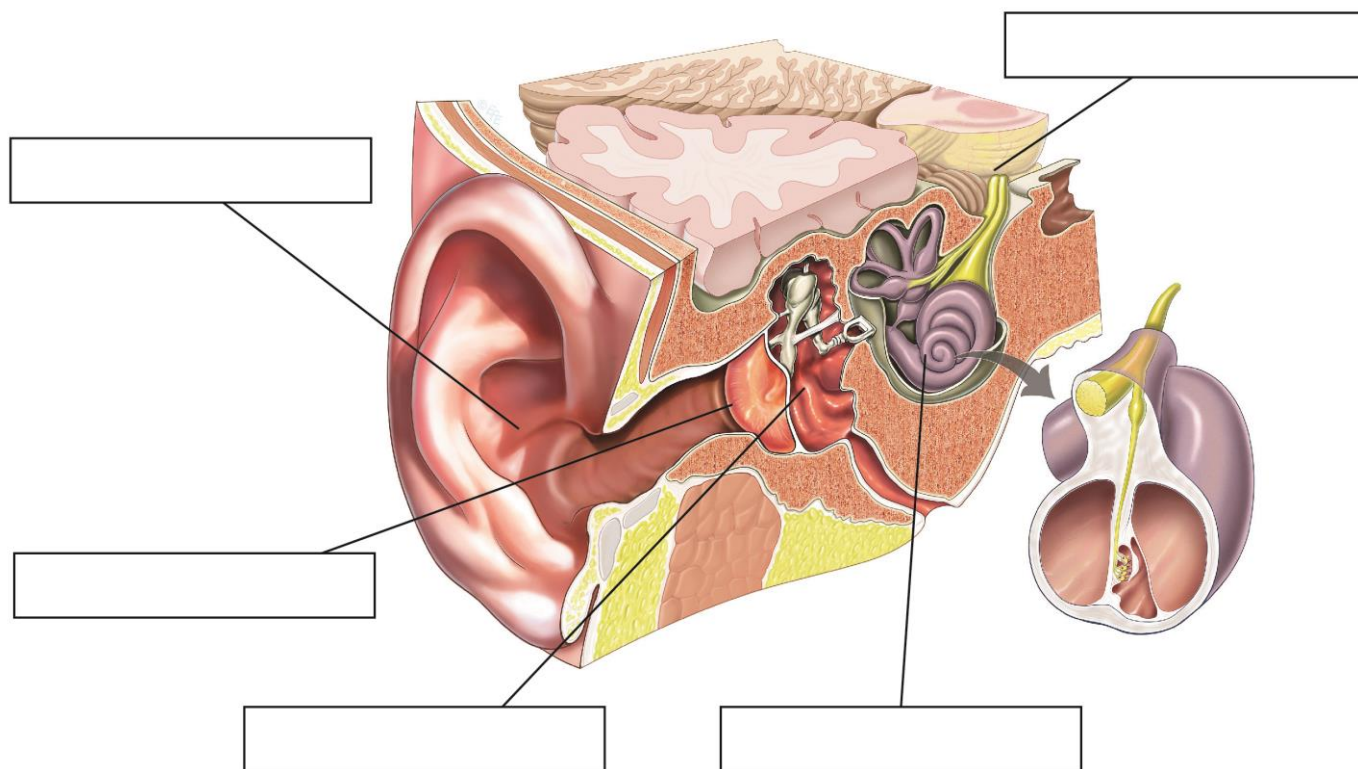
- 5 How does the ear detect and interpret sound and transfer it to the brain? You must mention structures and their functions.



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- 6 Label the following diagram of the ear and, using a red pen, draw the path that sound takes from the ear to the brain.



- 7 What is the common misconception regarding taste and the tongue?
- _____
- 8 What does the ability to detect smell rely on?
- _____
- 9 How does the nose detect and interpret smell and transfer it to the brain? You must mention structures and their functions.
- _____
- _____
- 10 What stimuli can the skin detect?
- _____
- 11 Which sense organ is able to tell the human body more about the world than any other?
- _____



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Extend your understanding

12 In the following situations, state the stimulus, the stimulus organ, and the response.

- a Heather takes off her jumper on a hot day.

- b Arthur steps on a pin.

- c Rachel's mum turns on her bedroom lights to wake her up.

- d Tana eats a sour lolly.

- e Robbie walks by some old and rotting fish.
