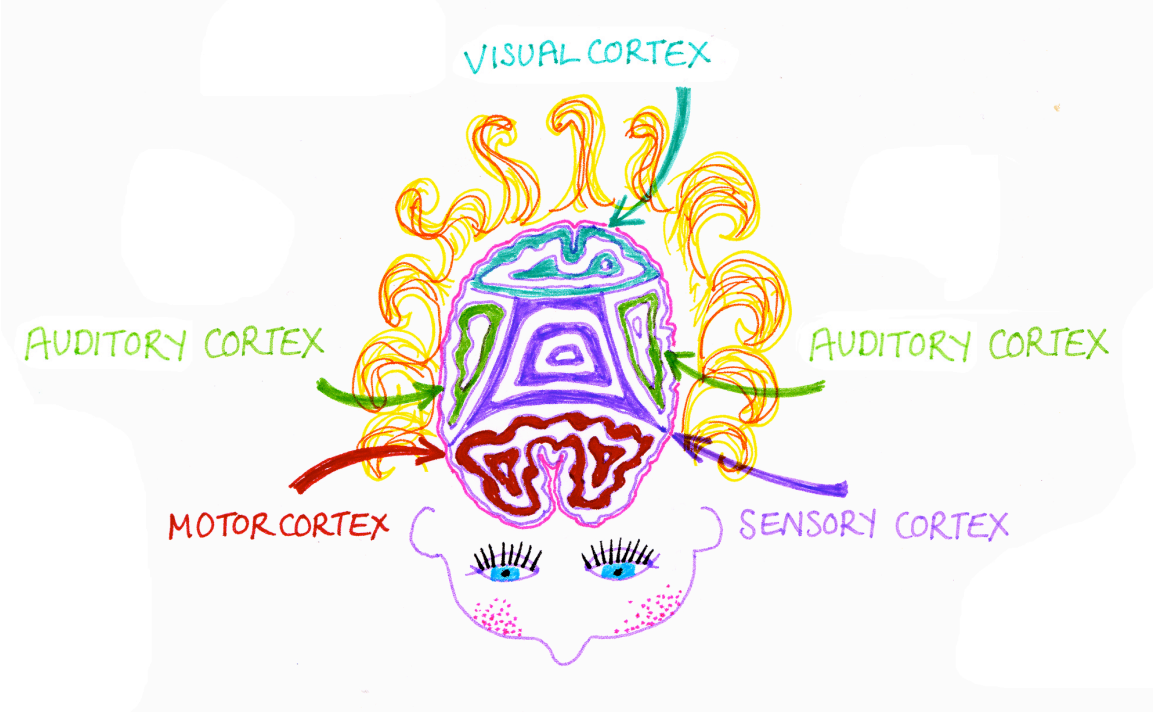


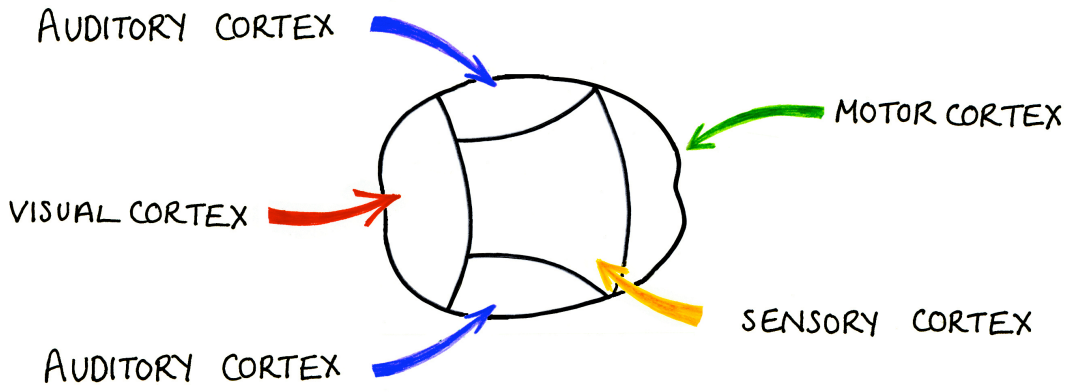
Brain Game 1

This game shows us how we pick up different messages and send them to different areas of our brain.

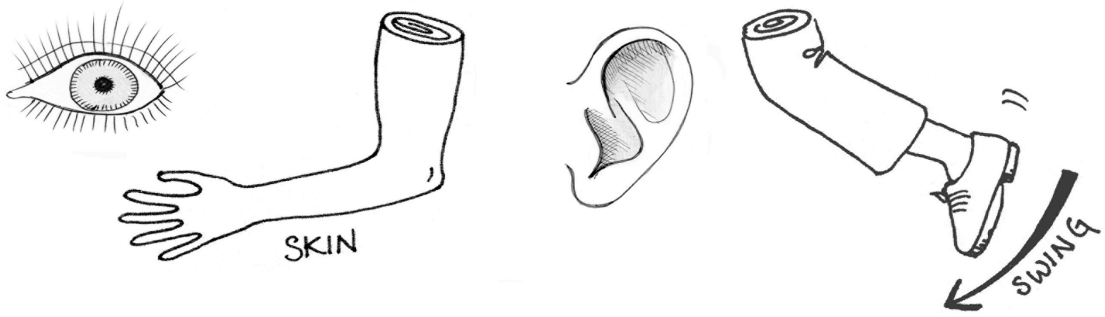
We will learn:

- how our senses pick up messages from the world around us and send them to different parts of our brain
- the names of the different parts of the brain and what each part (or cortex) is for
- what a neuron is and what it does

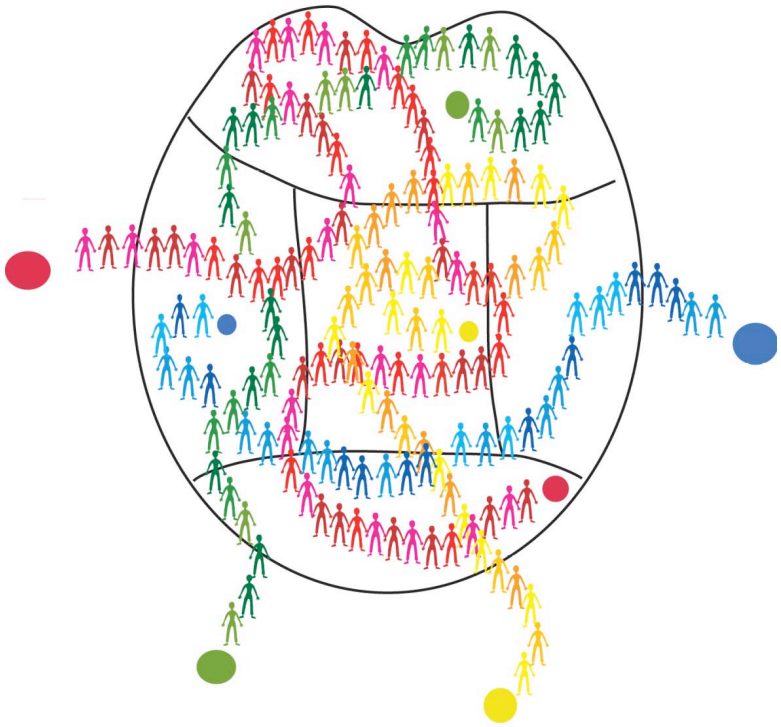
Where did you stand in the brain diagram?



Or were you one of the body parts below?



skin is connected to the sensory cortex
eyes are connected to the visual cortex
leg representing movement is controlled by the motor cortex
ears are connected to the auditory cortex



Discussion

1. What part of the brain or body were you?
2. Where did you stand?
3. What did you do to connect with the next neuron or body part?
4. How was a signal sent from one part of the brain to the other?
5. What does this represent in the real brain?
6. What caused the signal to be sent?
7. Where would a sound stimulus be received in the brain?
8. Can the brain cope with more than one signal at a time?
9. What might happen if part of the brain tissue is damaged?

Key Words and Definitions

- **Neurons –** are electrically excitable cells in the nervous system
- **Cortex –** an area of the brain
- **Visual cortex –** he part of the brain that is involved in visual functions
- **Auditory cortex –** the part of the brain that is involved in audio functions
- **Sensory cortex –** the part of the brain that collects messages from the sense of touch
- **Motor cortex –** the part of the brain that involved in movement functions

Brain Game questionnaire

Can you remember the names of the four different cortexes in the brain?

1. Draw a simple diagram of our brain showing the four basic areas or cortex; remember that one cortex is in two halves, one half on each sides of the brain.

2. Show where you stood in the brain game.

3. Where you a body part like an eye or a neuron, which is part of the brains tissue?

4. Which cortex were you connected to?

5. How were messages sent around the brain in this game?

6. How do you think messages are sent around our brains?

7. What happened to the messages when the brain in the game gets damaged?

8. Do you think this could be the same in our brains?