

Brain Worksheet

What parts of the brain are involved? What happened to the brain?

1. A patient with a missing hand feels sensations in his missing hand when touched on the face. In addition, when water was dribbled onto his face, he felt as if it were running down his arm, if he lifted his arm; it felt as if the water were running towards the ceiling.

2. A composer sees certain colors whenever certain notes are played. He decides to compose a piece that is accompanied by a light show to demonstrate how he experiences the music.

3. A person with damage to this area of the brain may have difficulty walking or speaking, speaking slowly and laboriously or sometimes stuttering.

4. What did a cruel experimenter do to this rat?



5. A video camera is put on the head of a blind person. The images send signals to electrodes placed on her back. After awhile, she is able to see again. Similarly, there is experimentation with the idea of 360 vision, where a video camera is placed on the head, directed in the opposite direction from which he is facing, and this video camera sends signals to electrodes placed on the back.
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6. Dr. Bolte reports losing control over her right arm as it falls limp at her side. She also loses the ability to perceive where her body ends and where the space around her begins. She tries to call for help and after much effort dials the number to both her workplace and her doctor's office only to find that she cannot articulate the words she has been practicing in here mind. In addition Dr. Bolte could no longer distinguish writing as writing but rather as a series of squiggles she could not decipher.
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7. In *An Anthropologist from Mars*, Oliver Sacks describes Greg who had a seizure and experienced amnesia causing him to forget he was blind and that he had broken his leg as a result of a fall from the seizure. He did not experience visual hallucinations or "phantoms". He lived only in the present and did not recall that his father had passed away until he was reminded on it on occasion. He recalled memories from many years ago as if they had just occurred. When attending a Grateful Dead concert at Madison Square Garden, Greg discussed New York City as it has been in the 60s rather than in the present. However, driving to the concert, Greg was able to recall the smell of pretzels and connect that to similar smells from the past. Greg became confused when more recent songs were played at the concert and the next day had no recollection at all of attending the concert claiming, "he had never been to Madison Square Garden."
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8. A person has a seizure and as a result of the subsequent brain damage, the person goes into a coma.
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9. The person is asked to look at this picture, focusing on the dot. When asked to say what he saw, he said he saw “A man with dark eyebrows and a mustache.” However, right afterwards, the same person, when asked to select the picture of the person he sees from a group of photos, he selects a picture of a woman with blond hair.
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10. In Psychopaths, this part of the brain is underactive. As a result, they do not feel fear, which makes them unable to empathize with their victims. It also disables them from learning through punishment. Finally, it allows them to function in fearful situations without being overwhelmed by fear; they stay unbelievably calm, rational, and in control, and do not lose their composure.
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