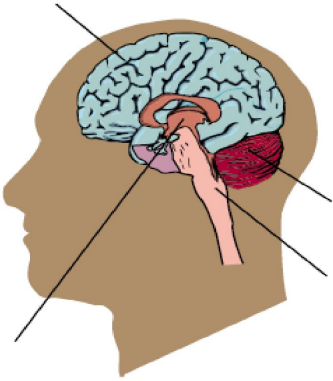


Investigate and report on the functions of the brain





Learning Objectives

- 10.L2 understand specific information in unsupported extended talk on a wide range of general and curricular topics, including talk on a limited range of unfamiliar topics
- 10.S3 explain and justify own and others' point of view on a wide range of general and curricular topics



- *What have researchers of the University in the USA found?*
- *How could findings help in the future?*



Listening

Tapescript:

Researchers from the University of Michigan in the USA have found that the brain of astronauts changes shape during spaceflight. It is the first study to look into how the brain changes on the journey into space. Researchers looked at pictures of the brains of 26 astronauts who spent time in space. The photos were taken by high-tech medical machines called MRIs. Twelve of the astronauts spent two weeks as Space Shuttle crew members, and 14 spent six months on the International Space Station. All of them experienced increases and decreases in the size of different parts of the brain. The researchers said that the longer an astronaut spent in space, the bigger the differences in size were. The research produced some interesting findings. The researchers explained that, "gravity is not available to pull fluids down in the body". This means there is a shift in the position of the brain inside the skull. The brain becomes either more squashed or bigger in size. The findings could help doctors in the future to treat problems that affect the brain's function. One possibility is to treat people who develop problems caused by long-term bed rest. Another possibility is to treat those who have a build-up of fluid in the brain, which can lead to brain damage. The researchers also say we will understand more about how neurons in the brain make connections. In addition, the findings will help future space travelers on their journey to Mars.

Brain Functions:

- Emotional response
- Planning
- Learning
- Maths
- Memory
- Creativity
- Language
- Social interaction

Role A — Memory <p>You think memory is the most important brain function. Tell the others three reasons why. Tell them why their functions are not as important. Also, tell the others which is the least important of these (and why): creativity, social interaction or planning.</p>	Role B — Creativity <p>You think creativity is the most important brain function. Tell the others three reasons why. Tell them why their functions are not as important. Also, tell the others which is the least important of these (and why): memory, social interaction or planning.</p>
Role C — Social Interaction <p>You think social interaction is the most important brain function. Tell the others three reasons why. Tell them why their functions are not as important. Also, tell the others which is the least important of these (and why): creativity, memory or planning.</p>	Role D — Planning <p>You think planning is the most important brain function. Tell the others three reasons why. Tell them why their functions are not as important. Also, tell the others which is the least important of these (and why): creativity, social interaction or memory.</p>
Role E — Language <p>You think language is the most important brain function. Tell the others three reasons why. Tell them why their functions are not as important. Also, tell the others which is the least important of these (and why): creativity, memory or planning, social interaction</p>	Role F- Learning <p>You think learning is the most important brain function. Tell the others three reasons why. Tell them why their functions are not as important. Also, tell the others which is the least important of these (and why): creativity, memory or planning, social interaction, language.</p>

Today I
have
learnt
that...

Discuss
with a
partner
before you
share it
with the
class

The most
interestin
g thing I
learned
today

I found
out
that...

Today I
have
tried



Home task:

Read the text. Answer the questions. Do task true, false.

Copy out functions of brain