

		
<h2>Mars, here we come ...</h2>		
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EXPERIMENT: BIOLOGY – balance		

RESEARCH QUESTION

Why do astronauts experience space (motion) sickness (also known as space adaptation syndrome)?

HYPOTHESIS (Indicate the correct answer.)

For a proper function of the vestibular system (=evenwichtszintuig) we need gravity.

Because there's less gravity, all the movements happen **slower/faster**. The influence of the inertia will also be **smaller/bigger**.

OPERATION OF THE EXPERIMENT

- 1
 - a) Head straight, eyes open, spin around 7 times at the most, try to stand up straight (with your eyes open)
 - b) Head straight, eyes closed, spin around 7 times at the most, try to stand up straight (with your eyes closed)

- 2
 - a) Head straight, eyes open, spin around 7 times at the most, try to walk on a line (with your eyes open)
 - b) Head straight, eyes closed, spin around 7 times at the most, try to walk on a line (with your eyes open)
 - c) Head tilted, eyes closed, spin around 7 times at the most, try to walk on a line (with your eyes open)

THE RESULTS / OBSERVATIONS

Experiment 1

- a) It's possible.
- b) It's possible. It's a bit difficult to remain in balance.

Experiment 2

- a) It's possible. We can't good walk on a straight line.
- b) It's hard but possible.
- c) Everything spins around, it's not possible to walk on a straight

CONCLUSION

Watch the following clips:

<https://www.youtube.com/watch?v=9sRkBP0I-mc>
<https://www.youtube.com/watch?v=ApE9OUsgvrE>
https://www.youtube.com/watch?v=ibhZUu_ixrI

Combine this information with the results of the experiment.

Why do astronauts experience space (motion) sickness (also known as space adaptation syndrome)?

Because your balance system and your eyes give different signals to your brain it thinks that there's something wrong with your vision because you ate something poisonous and makes you throw up to get rid of the poison

REFLECTION

Did you expect this answer?

Yes, we already knew it.

Compare your results with the results in the other school. Did you come to the same conclusion?

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