

		
VRIJE ASO.SCHOOL		
<h2>See you in space</h2>		
NAME: Mirte Bossuyt	NAME: Alexander Verheule	
NAME: Wout Debie	NAME: Jules Victor	
SCHOOL / CLASS: 3 WET b/a	MARKS: /...	
<h3>EXPERIMENT: BIOLOGY – balance</h3>		

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) He could stand up, it wasn't hard but it wasn't easy as well.....
- b) He was still turning, he was drunk

Experiment 2

- a) He could do it, it was easy.....
- b) He could de it, but it was hard
- c) He couldn't do it

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)?

The balance system feels something different, than your eyes see. So your body gets sick.

.....

REFLECTION

Did you expect this answer?

Yes, we did. We already experienced it.

.....

.....

Compare your results with the results in the other school. Did you make the same conclusion? Yes, we did.

.....

