

 VRIJE ASO.SCHOOL	 eTwinning	
<h2>See you in space</h2>		
NAME:	NAME:	
NAME:	NAME:	
SCHOOL / CLASS:	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) .....
- b) .....

Experiment 2

- a) .....
- b) .....
- c) .....

## 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](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)?

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## REFLECTION

Did you expect this answer?

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

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