

 VRIJE ASO.SCHOO	 eTwinning	
<h2>See you in space</h2>		
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<h3>EXPERIMENT: BIOLOGY – taste</h3>		

RESEARCH QUESTION

In space, astronauts eat more spicy food than they do on earth because they taste less in space than on earth. How come?

HYPOTHESIS (Indicate the correct answer.)

In space, cause of the lack of gravity, there's a fluid shift in the body. The blood and the other fluids in the body are spread *less/more* equally. On earth, thanks to gravity, there's *less/more* blood in the legs.

Because in space there's *less/more* blood in the head, their faces are swollen and their noses are blocked. This feels like having a cold.

After a few days their face is less swollen because the body adapts to life in space.

On long terms the food must be spicier because in the spacestation there are a lot of smells (body odor, machines...) and the smell of the food isn't strong enough to predominate all those smells, so the food tastes *less/more*.

OPERATION OF THE EXPERIMENT

- 1 a) Put on a blindfold and a nose clip. Another pupil will give you something to eat. Try to guess what you're eating. Don't swallow it!
b) Now remove the nose clip and try to guess again.
- 2 Put on a blindfold. Another pupil will give you something to eat. Try to guess what you're eating while you're smelling an onion.

THE RESULTS / OBSERVATIONS

Experiment 1

- a) He can't guess what food he eats.
- b) He knows what he's eating.

Experiment 2

You taste the apple but less because you are smelling the onion.

CONCLUSION

Watch the following clip: <https://www.youtube.com/watch?v=xFgS9alvV1w>

Combine this information with the results of the experiment.

In space, astronauts eat more spicy food than they do on earth because they taste less in space than on earth. How come?

Because it's like a head cold, you taste less your food (you also taste with your nose). That's why they eat spicy food, so they can better taste their food.

REFLECTION

Did you expect this answer?

Yes, we did because we knew already that the gravity is the reason that there is more blood in the legs.

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

Yes, we did. They think the same as us, they thought also that it feels like a head cold. When you eat in space you taste less.