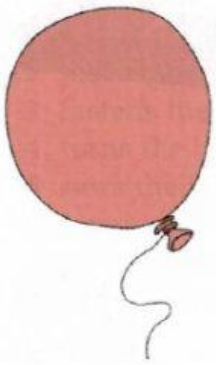
How come?

5 Here are some more science questions. What are the answers? Discuss them with some other students.

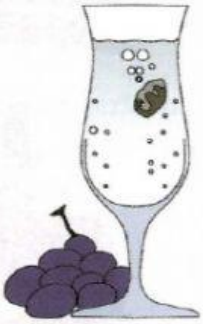
① What happens to a balloon filled with helium if you let go of it? Why?



② What happens if you have a football in your car and you stop the car suddenly? Which direction does the ball roll, and why?

③ What happens if you have a balloon filled with helium in your car and you stop the car suddenly? Which direction does the balloon move, and why?

④ What happens if you drop a raisin* into a glass of champagne? Why?



⑤ What happens if you put a frog inside a very powerful magnet? Why?

a raisin = a dried grape

6 Choose the correct word.

① The balloon rises upwards *why/because* the air above the balloon is lighter and less dense.*

② The ball is heavier, and denser* than the air in the car. A sudden stop *make/makes* the ball roll towards the front of the car.

③ When the car stops suddenly, the air inside the car keeps moving forward. That *mean/means* the air in the front of the car becomes denser than the air at the back. This increases the pressure on the front side of the balloon and *make/makes* it move towards the rear of the car.

④ Bubbles of air collect around the raisin and *make/makes* it rise to the top of the glass. When it reaches the surface, the bubbles escape, so it sinks back to the bottom again. Then the process starts again and repeats itself and that's *because/why* the raisin keeps moving up and down.

⑤ Some materials are diamagnetic. This *mean/means* a magnet repels them. Carbon-graphite, water, protein, DNA, wood, silver, and gold are all diamagnetic. A frog's body is diamagnetic *because/why* it contains a lot of water, protein, and DNA. So if you put a frog inside a powerful magnet, the magnet repels it, and the frog rises up into the air.

* If something is dense, it is heavy in relation to its size. Density is the relationship of weight to volume.

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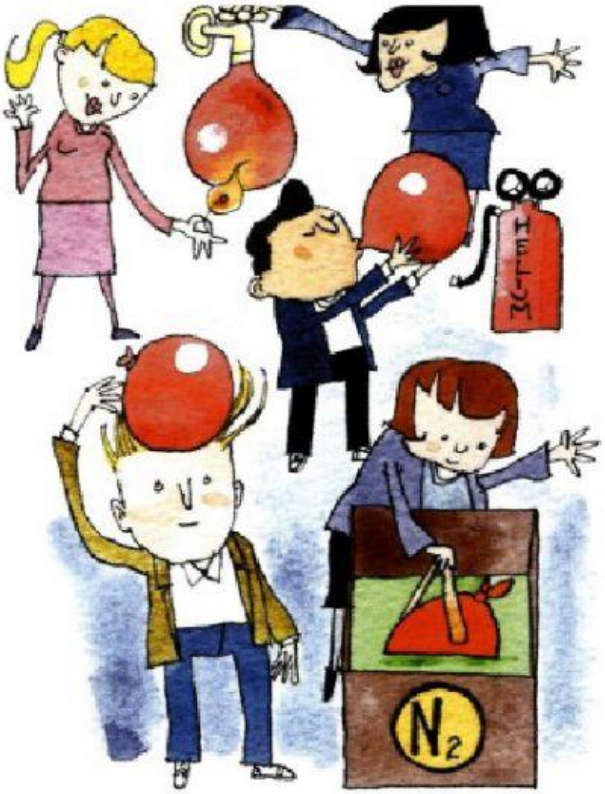

Think of another science question to ask the other students in the class and write it down.

See if any 'experts' in the class can answer them.

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