

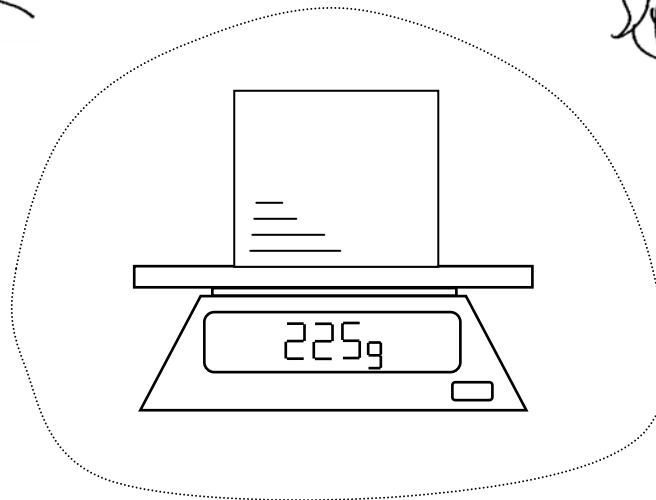
Can the weight of an object change?

Sam puts a box on a top pan balance. It reads 225 g.
 If she took it up to the top floor of a very tall building, would it still have the same reading?
 What do you think?

It is getting further from the Earth, so the force of gravity will be weaker. It will weigh less.



I think it will change, but the difference will be too small to see.



The pull of gravity on the box will get bigger because the box is higher up. So it will weigh more.



It will stay the same weight, because it is still the same box.



Can the weight of an object change? What do you think?

Tick a box in each row to show if you agree or disagree with each of the pupils:

		Agree	Disagree	Not sure
Adrian	It is getting further from the Earth, so the force of gravity will be weaker. It will weigh less.			
Betty	I think it will change, but the difference will be too small to see.			
Charlene	The pull of gravity on the box will get bigger because the box is higher up. So it will weigh more.			
Dee	It will stay the same weight, because it is still the same box.			

Please explain your answer in the space below:

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