

GETTING AHEAD



ALTON

Start to develop skills that are relevant to your course before you join HSDC this September!

Applied Science - CTEC Level 3 Extended Certificate

Can you find out about the Science which explains the following facts?



What is the chemical name for water?

Unlike many substances, water expands as it freezes. An ice cube takes up about 9% more volume than the water used to make it.

Photo; <https://pixabay.com/en/ice-cubes-cold-water-melt-drink-1224804/>



<https://www.flickr.com/photos/jsjgeology/17865751279>

A pure element can take many forms, what are the names for THREE forms of pure Carbon?



<https://commons.wikimedia.org>

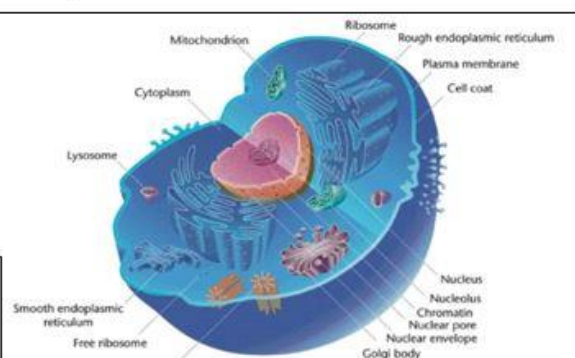


What is the name and formula for the chemical which makes the surface of Mars red? Why is this chemical a "nuisance" on Earth?

Image; <https://www.flickr.com/photos/robglover/2121486286>

The only letter that does not appear on the periodic table is J. Can you find the name of an element for each of the other letters of the alphabet?

This is a diagram of a typical animal cell; find out the function of each labelled part (organelle). Find out the names and functions of other organelles which *only* occur in plant cells.



<https://commons.wikimedia.org>

We look forward to seeing you in September!

For further information about your College and being a student at HSDC, please visit hfdc.ac.uk/Alton