

Active transport

JAMILA Awesome party! But what are we going to do with all these sweets?

MEGAN I...can't...eat...another...thing.

JAMILA Venus bar?

MEGAN Sure.

JAMILA I think...I need...a taxi...or a crane...to get home...or some other...mode...of transport.

ALFRED Did someone say 'transport'?

JAMILA Please, not now Alfred.

ALFRED Actually Jamila, it is always happening – including now! Active transport is the biological process involving molecules passing through a cell membrane into the cell where there are a bunch of molecules.

Active transport concerns different concentrations of molecules – from low concentrations of molecules into high.

As you can see, there are far more molecules inside the cells than there are outside the cells. When a molecule moves into a cell with a high concentration of molecules, the particle is going against what is called the concentration gradient.

JAMILA Alfred! Stop talking. We've eaten too much chocolate.

ALFRED Megan, remember when you ate that last Venus bar? It took a lot of energy to do it, didn't it? For that creamy confectionery to pass into your already stuffed stomach?

Bitesize

In order to get molecules from an area of low concentration into an area of high concentration, it requires energy. That is active transport.

MEGAN I think I'm going to be sick!

ALFRED Searching for nearest carpet cleaner.