



Credit: TopFoto

Life-like leaf

Cold is really 'caused' by a lack of energy. Molecules are normally busy bouncing around, but cold molecules have less energy and move more slowly than their heated-up counterparts. As they get colder they eventually stop bouncing around and start to stick together, forming new, solid structures called crystals.

You will need

- Large leaf
- Pen
- Pair of scissors
- Shallow bowl of water
- Freezer

Steps

1

Pick a friend or famous person who you'd like to turn into a 'snowman' and draw the outline of them on a leaf.

2

Cut out the figure and fill in the features and clothing of your snowman.

3

Drop the leaf figures into the bowl of water before placing the bowl in the freezer and leaving it to freeze solid.

4

After a couple of hours, remove the bowl of water from the freezer and allow it to defrost.

5

Once the figures have defrosted, compare them with the state they were in before they went into the freezer.

Analysis/ discussion

What happened to the figures when they were frozen? Why do they look so different after they have defrosted?

Is it possible to return the figures to their original condition after they have defrosted?

Why is it not possible to freeze people and thaw them out when you need them?