What causes ice to melt?

Explanatory video transcript

(0:10) What causes ice to melt?

(0:15) What is ice made of?

(0:18) Yes, it's made of water. And guess what, we can make ice at home. How?

(0:28) By putting water in the freezer.

(0:46) Now, have you ever wondered why ice melts?

(0:51) To answer this question, we have made an experiment. We used three ice cubes and placed them in three places at different temperatures.

(1:05) The first ice cube is our control, we are not doing anything special to it.

(1:12) The second one is for fast melting. How? If you live in a sunny place, put it where the sun can reach. If it's colder, use a lamp or put it near something warm, like a fireplace.

(1:29) The third one is for slow melting. Where could you put the ice to keep it from melting so fast? Somewhere cold like the fridge.

(1:43) Why ice melts? We discovered that temperature is the key player. The warmer it gets, the faster the ice melts.

(1:55) Ice melts when it absorbs heat from its surroundings. When the temperature around the ice is warmer than the freezing point of water, the ice starts to warm up.

(2:05) As it warms, the ice gains energy, which causes the molecules inside the ice to move faster and break free from their solid arrangement.

(2:15) This process continues until all the ice turns into liquid water.