

## Air Pressure: What causes an empty can to collapse?

	As the water heats it changes from <b>liquid</b> into <b>gas</b> . This steam pushes the air particles out of the can.	1
	Air particles on the outside of the can continue to push against it., as there are now no particles on the inside pushing outwards. The air particles on the outside crush it.	2
	The water <b>particles</b> are at the bottom of the can and air particles fill the rest of the can.	3
	This means above the water there are no gas particles at all. There is nothing there. We call this a <b>vacuum</b> .	4
	When you turn the can over the water drops to the top. This blocks the hole and collects the steam particles.	5

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