

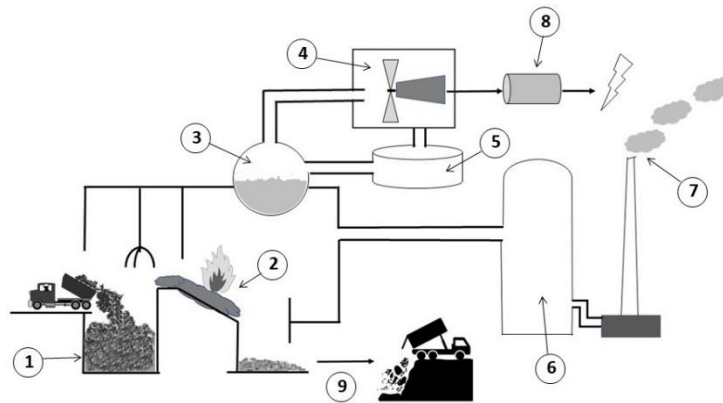
Hazard A Guess

An extension of "Smart ways to deal with waste"

Managing waste is a challenge for the whole world. Many countries have developed innovative ways to deal with waste. One of the best ideas has been to generate energy from waste. Here's an exercise to help you to grasp the concept better.

Instructions

1. Individually, read "**Smart ways to deal with waste**" (page 7, *What's Up* June 2018) to see why converting waste to energy is a great idea.
2. Given below is a simplified diagram of a typical waste-to-energy conversion plant.



The numbers in the diagram mark the locations at which the processes described in the table below are taking place. Working in pairs, fill the boxes to the left of the description with the correct location number. Use the information from the article and your own reasoning to do this. Note: Location numbers can be used more than once.

	Kinetic energy is converted to electrical energy.		Waste is burnt in the incinerator.
	Heat energy is converted to kinetic energy.		Super-heated steam drives a turbine.
	The ash is collected and used for landfill.		High heat changes water to gaseous state.
1	Waste is deposited at the plant.		Hot water droplets are cooled and sent to be reused.
	Toxic substances are removed from the gases collected.		The scrubbed gases and water vapour are released into the atmosphere.
	Steam is condensed into water droplets		Combustion takes place.