

TIMSS 2023 – Restricted Use Items

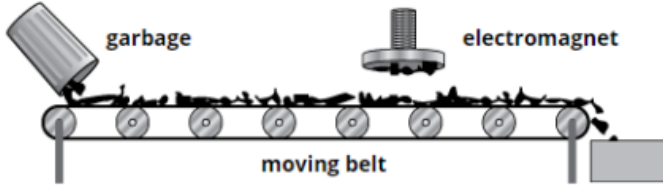
Physics

Benchmark 1

Content Domain: Physics

Cognitive Domain: Applying

The diagram shows garbage being dumped onto a moving belt. Some of the garbage is being removed by an electromagnet and the rest falls into the box.



What happens to each of the following materials?
(Click one circle in each row.)

	Removed by the electromagnet	Fall into the box
steel cans	<input checked="" type="radio"/> A	<input type="radio"/> B
plastic cups	<input type="radio"/> A	<input checked="" type="radio"/> B
aluminum cans	<input type="radio"/> A	<input checked="" type="radio"/> B
newspapers	<input type="radio"/> A	<input checked="" type="radio"/> B
iron nails	<input checked="" type="radio"/> A	<input type="radio"/> B

Benchmark 3

Content Domain: Physics

Cognitive Domain: Applying

Lucy placed a glass of hot tea next to a glass of cold water on the table. Which of the graphs shows how the temperatures of the tea and the water changed over the next two hours? Assume the temperature in the room is 25°C .

