

What Stays the Same When a Material Changes State?

materials

What you need: clear sealable tub with crushed ice · kitchen scales or beam balance · clear zip bag with a little warm water sealed inside · cold metal tray (or a cold window) · dry cloth for wiping the tub before weighing

Words to use

State · Mass · Particles

Our question

When the ice in the sealed tub melts, will the tub weigh more, less or exactly the same?

I predict...because...

Our readings (wipe the tub dry before each weighing)

	Mass (g)
Before melting	
After melting	

One sentence: what actually changed when the ice melted?

The tub looked completely different. Why did the balance reading stay the same?

What did the tiny particles do? (They never change or disappear – only the way they move changes.)

