	next week! Energy Unit Review Sheet Name: Key
Test	Name: Name: Name:
	Study Guide
I can identify the system vs. surroundings in a situation for model.	
1. Ide	entify the system and the surroundings in the following scenarios:
(5)	a. When putting ice in a glass of water, one falls to the floor and melts.
(2)	System = ice surrounding = floor, air, universe
	b. A glass of cold apple cider is placed in the microwave to warm.
	System = apple rider surroundings= glass, microwave, air universe
	c. Hot steam from the shower condenses on the mirror in the bathroom.
	System=hot steam surroundings=mirror, bathroom, universe
	el the exchange of energy between the system & surroundings.
	mplete an energy bar chart for each of the following scenarios: a. When putting ice in a glass of water, one falls to the floor and melts.
Phases	Initial Energy Flow Final
	Thermal=Heat Eth Eph Son Eth Eph Son
Solid= 1	(ald=0-1) [
	Room = 2-3 (ice)
Gas=4	Hot = 4 1 1 - 1 - Endo.
	2 + 2 - 4
	b. A glass of cold apple cider is placed in the microwave to warm. Initial Energy Flow Final
Tes	Strube Janes Apple Janes
01	
7/2	1-1- Endo.
	2 4 + 1 = 5
. 30	c. Hot steam from the shower condenses on the mirror in the bathroom.
\ \	Initial Energy Flow Final
	Eth Eph Set Et
	Sign Exo.
	8 - 4 - 4
I can predict the transfer of energy between objects of different temperature due to particle collisions.	
3. Describe how the energy transfers between the hot steam and the mirror in the scenario in 2c above.	
tho-	I steam is a gas with high energy. When it touches
the gool mirror it transfers its energy. Then the hot Steam	
I can apply the law of conservation of energy to a system.	
4. Wha	at is the law of conservation of energy? It was leved to
All en	e gool mirror it transfers its energy. Then the hot steam or denses to a liquid and we see water droplets on the at is the law of conservation of energy to a system. The energy transfered to the mirror to surrandings. ergy is Saved. It is transfered from one Source to another.