Name _		
Period	Date	

Energy Pie Charts, System Schemas, and Energy Flow

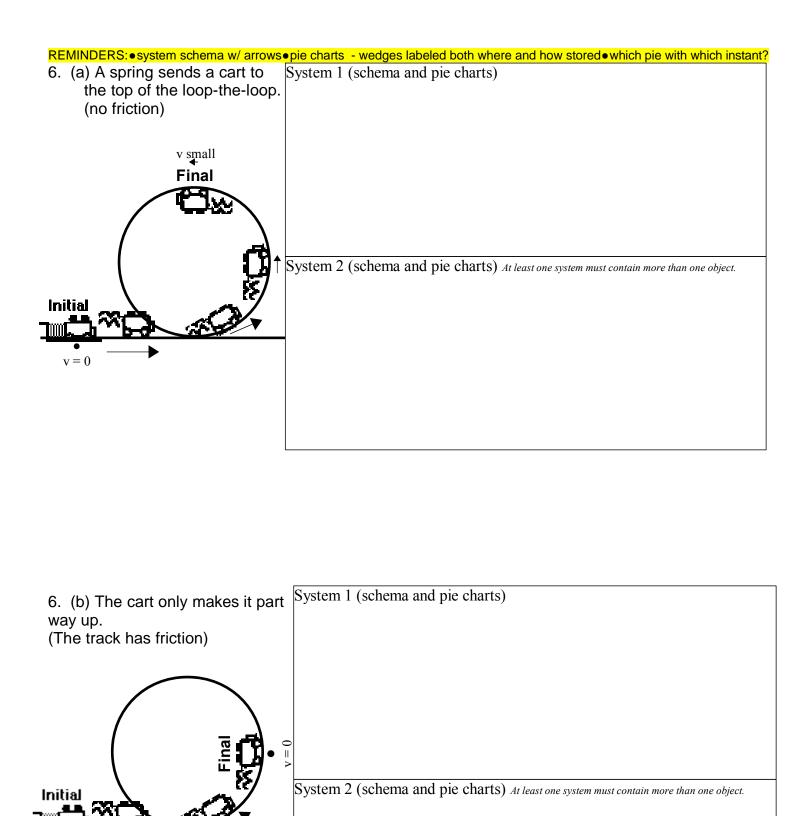
For each situation shown below:

- 1. Draw a system schema showing your choice of system as well as the objects that interact with it.
- 2. Draw a series of <u>pie charts</u> for the indicated instants in time illustrating the storage of energy by the system you chose.
- 3. Be clear about which pie goes with which instant of motion. Ambiguity will not be interpreted in your favor.
- 4. If your pies grow or shrink, add arrows to your system schema showing the transfer of energy.
- 5. <u>Label each pie wedge</u> with both where and how the energy is stored.
- 6. Repeat steps 1 5 with a different choice of system. At least one choice of system must contain more than one object.

You can save repetition and space by labeling wedges and bars with single letters or colors and including a key to the side. In bluebeam, the circle tool makes it easy to draw perfect circles.

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1	. A piece of clay is dropped to the floor.
	System 1 (schema and pie charts)
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S	System 2 (schema and pie charts) At least one system must contain more than one object.
	stop on the floor.
System 1 (schema a	and pie charts)
System 2 (sahama s	and pie charts) At least one system must contain more than one object.
System 2 (schema a	ind pie charts) At least one system must contain more than one object.

REMINDERS: ●system schema w/ arro	ows●pie charts - wedges labeled both where and how stored●which pie with which instant?
	System 1 (schema and pie charts)
y > 0 $y_0 = 0$ $y_0 > 0$ y > 0	
	System 2 (schema and pie charts) At least one system must contain more than one object.
	a tightly coiled spring, then is launched into the air.
No friction.	System 1 (schema and pie charts)
Initial v = 0	System 2 (schema and pie charts) At least one system must contain more than one object.
	5. A bungee jumper falls off the platform and reaches the limit of tretch of the cord. (No friction) System 1 (schema and pie charts)
stretched still anstretched	System 2 (schema and pie charts) <i>At least one system must contain more than one object.</i>



v = 0