Name

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Date Pd

Unit 1 - Quiz 1

*Use pie charts and state diagrams to analyze the energy changes in each situation shown.*

• Designate your choice of system with a dotted line. *Choose your system so that all energies involved remain within the system.*

• Carefully label the pies to correspond with the positions of the object shown. (A, B, C, etc.)

• The pies should be accurately divided and labeled with the energy storage modes involved. Each pie should have a corresponding state diagram.

1. A wind-up toy is wound up and moving across level ground. The toy is speeding up.



1. A spring launches a roller coaster cart from rest on a frictionless track into a vertical loop.

