Problem: How do I build a car powered only with a mouse trap?

EF&M Standard 1	I can use tables and graphs to determine what affects kinetic and potential energy	Before unit confidence	Assessment score
Knowledge "What you need to	Define or identify the Key Terms	Yes I can do all of this	4
know"	Energy, Kinetic energy, Potential Energy, Energy Transfer, Energy Transformation, Law of Conservation of Energy, Speed,	Yes, but not all the details	3.7
Performance	Explain, Describe, Apply, Predict, Evaluate etc Measure speed of an object in motion	Yes, but some I can't do	3.4
to do with what you know"	Explain what energy is Define kinetic energy and explain the factors that affect it	Not yet, but I can do some	3
	Explain potential energy and what the factors that affect afffects it. Describe the the relationship between energy and work	Not yet I've heard of it, but know little to none	2.6
		Never heard of this	No evidence 2

EF&M Standard 2	I can determine what causes obects to speed up, slow down, or change direction	Before unit confidence	Assessment score
Knowledge "What you need to know"	Define or identify the Key Terms	Yes I can do all of this	4
	Motion, Force, Mass, Acceleration, Reference Frame, Net force, Velocity, Newtons, Newton's First and Second Law, Unbalanced Forces, Inertia	Yes, but not all the details	3.7
Performance	Explain, Describe, Apply, Predict, Evaluate etc		
"What you need to do with what	Describe the motion of an object and tell what influences the description	Yes, but some I can't do	3.4
you know"	Utilize force diagrams to model forces acting on objects	Not yet, but	2
	Describe the relationship between mass, force and acceleration	l can do some	3
	Explian the how forces affect energy	Not yet	0 /
	Use evidene to explain why an objects motion changes	I've heard of it, but know little to none	2.6
	Explain the difference between acton-reaction force pairs and single object motion	Never heard of	No evidence
	Describe how propellers cause motion	this	2

EF&M Standard 3	I can describe the factors that affect non-contact forces	Before unit confidence	Assessment score
"What you need to	Define or identify The Key Terms	Yes I can do all of this	4
know"	Magnetic field, Electrostatic field, Atraction, Repulsion	Yes, but not all the details	3.7
Performance	Explain, Describe, Apply, Predict, Evaluate etc	Yes, but	2.4
"What you need to do with what you know"	Describe a magnetic and electrostatic field	some I can't do	3.4
	Differentiate between the types of non-contact forces Describe the factors that affect non-contact forces	Not yet, but I can do some	3
		Not yet I've heard of it, but know little to none	2.6
		Never heard of this	No evidence 2

Problem:

	EF&M: Standard 1
Topic	Kintic and Potential energy
Anchor	Car rolls down a ramp and drop racket balls
Causal	
Explanation	
What students	
should know	

	EF&M: Standard 2	
Торіс	What causes changes in moiton and direction	
Anchor	Draw what happens to energy and forces when a car acceleraates and then comes to a stop	
Causal Explanation		
What students should know		

EF&M: Standard 3	
Topic	How do you affect non-contact forces
Anchor	Draw how a magnet controls them motion of another magent
Causal Explanation	
What students should know	