Wk 26 Energyname:1a Popper	Wk 26 Energyname:1a Popper
System: Popper, table Turn the popper inside out. Place it on the table and watch it pop!	System: Popper, table Turn the popper inside out. Place it on the table and watch it pop!
1. Who did the work to add Mechanical Energy to the system?	1. Who did the work to add Mechanical Energy to the system?
2. What did you physically do to add the Mechanical Energy?	2. What did you physically do to add the Mechanical Energy?
3. What kind of Mechanical Energy did the popper gain as a result of what you did? □ KE □ GPE □ EPE	3. What kind of Mechanical Energy did the popper gain as a result of what you did? □ KE □ GPE □ EPE
4. Right after the pop, what kind of mechanical energy did the popper's energy convert into?	4. Right after the pop, what kind of mechanical energy did the popper's energy convert into?
□KE □GPE □EPE	□KE □GPE □EPE
5. When the popper reached its maximum height, what kind of mechanical energy did the popper's energy convert into?	5. When the popper reached its maximum height, what kind of mechanical energy did the popper's energy convert into?
□KE □GPE □EPE	□KE □GPE □EPE

Wk 26 Energy name: 1b: Pendulum	Wk 26 Energy name: 1b: Pendulum name:		
System: mass on string - "pendulum"	System: mass on string - "pendulum"		
Pull the mass back to the line and let go. Observe how high it goes on the other side.	Pull the mass back to the line and let go. Observe how high it goes on the other side.		
1. Who did the work to add Mechanical Energy to the system?	1. Who did the work to add Mechanical Energy to the system?		
2. What did they physically do to add the Mechanical Energy?	2. What did they physically do to add the Mechanical Energy?		
3. What kind of Mechanical Energy did the mass have before you let it go?	3. What kind of Mechanical Energy did the mass have before you let it go?		
	□KE □GPE □EPE		
4. After you let the mass go, what kind of Mechanical Energy did it convert into as it went downward?	4. After you let the mass go, what kind of Mechanical Energy did it convert into as it went downward?		
	□KE □GPE □EPE		
5. Then what kind as it went back up?	5. Then what kind as it went back up?		
	□KE □GPE □EPE		
6. Did the mass make it all the way back up to its original height? Why not? (What might have done work to transfer some energy away?)	6. Did the mass make it all the way back up to its original height? Why not? (What might have done work to transfer some energy away?)		
7. What form of energy (non-Mechanical) was it transferred to?	7. What form of energy (non-Mechanical) was it transferred to?		
□Light □Heat □Electrical PE □Chemical PE	□ Light □ Heat □ Electrical PE □ Chemical PE		

name:

Wk 26 Energy

1c: Hot Wheel

name:

System:	Hot	Wheel	& Track

Pull the Hot Wheel at the top of the track and let it go. Observe how high it goes on the other side.

1. Who did the work to add Mechanical Energy to the system?

2. What did they physically do to add the Mechanical Energy?

3. What kind of Mechanical Energy did the Hot Wheel gain as a result of what you did?

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□KE □GPE □EPE
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4. After you let the Hot Wheel go, what kind of Mechanical Energy did it convert into as it went downward?

□KE □GPE □EPE

5. Then what kind as it went back up?

□KE □GPE □EPE

6. Did the Hot Wheel make it all the way back up to its original height? Why not? (What might have done work to transfer some energy away?)

7. What form of energy (non-Mechanical) was it transferred to?

□ Light □ Heat □ Electrical PE □ Chemical PE

1c: Hot Wheel

System: Hot Wheel & Track Pull the Hot Wheel at the top of the track and let it go. Observe how high it goes on the other side.

1. Who did the work to add Mechanical Energy to the system?

2. What did they physically do to add the Mechanical Energy?

3. What kind of Mechanical Energy did the Hot Wheel gain as a result of what you did?

□KE □GPE □EPE

4. After you let the Hot Wheel go, what kind of Mechanical Energy did it convert into as it went downward?

□KE □GPE □EPE

5. Then what kind as it went back up?

□KE □GPE □EPE

6. Did the Hot Wheel make it all the way back up to its original height? Why not? (What might have done work to transfer some energy away?)

7. What form of energy (non-Mechanical) was it transferred to?

□ Light □ Heat □ Electrical PE □ Chemical PE

Wk 26 Energy	Wk 26 Energy		
1d: Spring	1d: Spring		
System: Spring & Mass	System: Spring & Mass		
Lift the mass until the spring is no longer stretched, then let it go.	Lift the mass until the spring is no longer stretched, then let it go.		
1. Who did the work to add Mechanical Energy to the system?	1. Who did the work to add Mechanical Energy to the system?		
2. What did they physically do to add the Mechanical Energy?	2. What did they physically do to add the Mechanical Energy?		
3. What kind of Mechanical Energy did the Hot Wheel gain before you let it go?	3. What kind of Mechanical Energy did the Hot Wheel gain before you let it go?		
	□KE □GPE □EPE		
4. After you let the mass go, what kind of Mechanical Energy did it convert into as it went downward?	4. After you let the mass go, what kind of Mechanical Energy did it convert into as it went downward?		
	□KE □GPE □EPE		
5. When the spring is fully extended and the mass comes to a temporary halt at the bottom, what has the energy been converted into?	5. When the spring is fully extended and the mass comes to a temporary halt at the bottom, what has the energy been converted into?		
□KE □GPE □EPE	□KE □GPE □EPE		
5. Did the mass make it all the way back up to its original height? Why not? (What might have done work to transfer some energy away?)	5. Did the mass make it all the way back up to its original height? Why not? (What might have done work to transfer some energy away?)		
6. What form of energy (non-Mechanical) was it converted to?	6. What form of energy (non-Mechanical) was it transferred to?		
□Light □Heat □Electrical PE □Chemical PE	│ □ Light □ Heat □ Electrical PE □ Chemical PE		

Wk 26 Energy 1e: Record Player name:	Wk 26 Energy 1e: Record Player name:
System: Record Player Put a record on and play it!	System: Record Player Put a record on and play it!
1. What kind of energy does the record player start with? Is it a form of mechanical energy?	1. What kind of energy does the record player start with? Is it a form of mechanical energy?
2. What kind of energy does the record player's motor convert the energy into? Is that a form of mechanical energy?	2. What kind of energy does the record player's motor convert the energy into? Is that a form of mechanical energy?
3. When you disengage the motor by switching the speed control to the dot, what happens to the record's motion?	3. When you disengage the motor by switching the speed control to the dot, what happens to the record's motion?
4. What force slowed the record down?	4. What force slowed the record down?
5. What type of nonmechanical energy did the energy get converted into?	5. What type of nonmechanical energy did the energy get converted into?

□ Light □ Heat □ Electrical PE □ Chemical PE

□ Light □ Heat □ Electrical PE □ Chemical PE