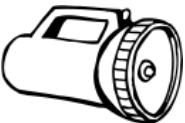







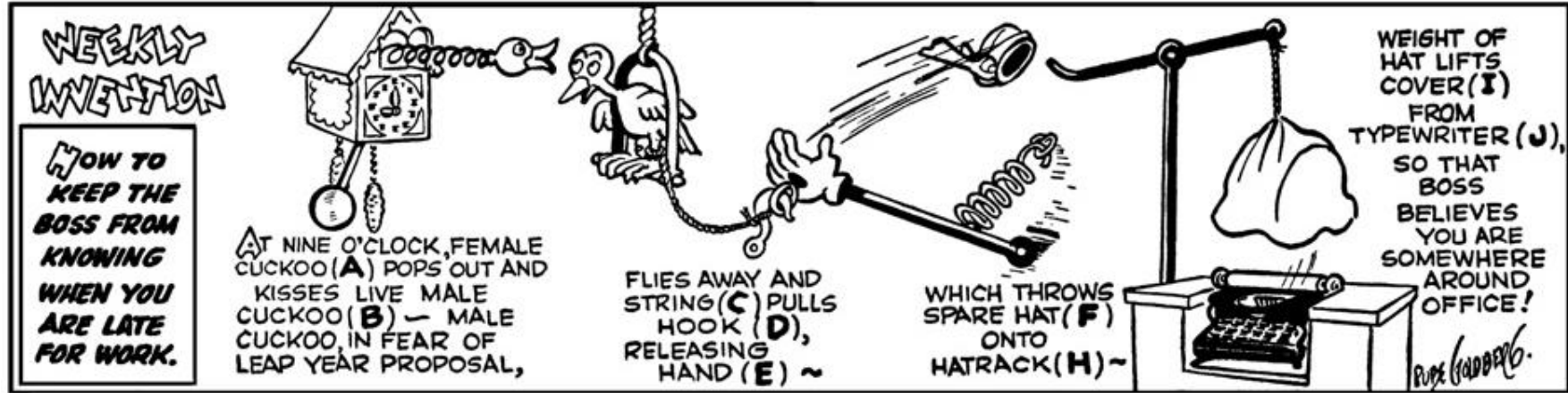
Name _____ Per. _____ Date _____

Energy Transformations – Examples of energy changing forms

Example	Energy Transformations Occurring
Flashlight 	
Hair Dryer 	
Car Engine 	
Cell Phone 	
Fan 	
Food 	
Think of your own...	

Energy Transformations in Rube Goldberg Machines

Directions: Use your Energy notes to determine the form of energy and how it is transformed in each step of the cartoon below.

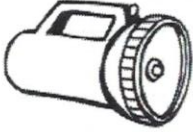







Step in the Machine	Form of Energy at the Start (Before action)	Energy Transformed into...
A		
B		
C		
D		
E		
F		
H		
I		
J		

Name _____ Per. _____ Date _____ SCREAM - T

Energy Transformations – Examples of energy changing forms

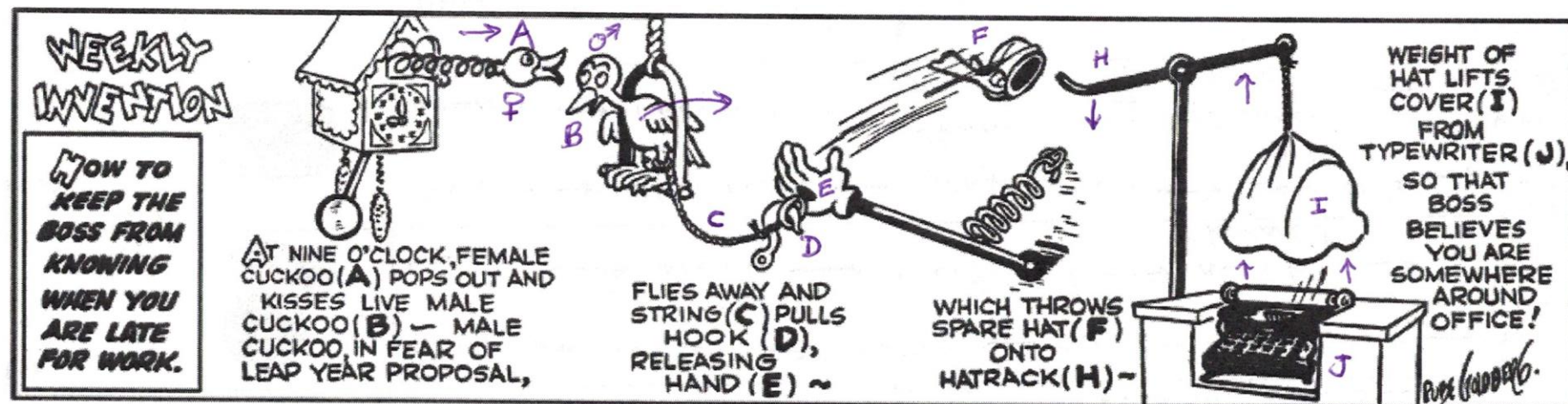
heat →

Example	Energy Transformations Occurring
Flashlight 	battery → button → circuit → light bulb Chemical → mechanical → electrical → radiant, thermal
Hair Dryer 	plug in outlet → switch → circuit → heat coil → fan mech → mech → electrical → electrical → mech thermal → sound
Car Engine 	Key ignition → starter → fuel pump (gas) → engine → tires spark plug battery sound drive shaft mech → electric → chem, chem, mech → mech
Cell Phone 	satellite, cell tower → battery → touch → screen → phone call screen lights up → mech Radiant → chem → thermal → Radiant → sound mech
Fan 	plug into outlet → button → circuit → motor → fan blades mech → mech → electrical → mech → mech. thermal
Food 	Sun → sun rays → grass grows → cow eats → cow becomes burger grass Atomic → radiant → chemical → chemical → mech. mech. → mech.
Think of your own...	burger on stove → burger on bun → burger in stomach thermal → mech. → mech. → chem.

Energy Transformations in Rube Goldberg Machines

$PE \xrightarrow{\text{heat}} KE$
 Potential Kinetic

Directions: Use your Energy notes to determine the form of energy and how it is transformed in each step of the cartoon below.



Step in the Machine	Form of Energy at the Start (Before action)	Energy Transformed into...
A	PE - Elastic	"KE" Mechanical (motion), sound
B	"PE" - Gravitational (GPE)	"KE" Meech. Sound
C	" - GPE	" meech.
D	" - GPE	" meech.
E	" - Elastic	" meech. sound
F	" - GPE	" meech
G		X
H	" - GPE friction $\xrightarrow{\text{heat}}$	" "mech"
I	" - GPE	" "
J	" - Elastic, GPE, meech?	" mechanical, sound