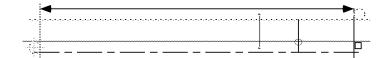
PhyzSketches: Energy Transformations

ENERGY AND THE POLE VAULTER



Match terms to definitions.

TRANSFER • Energy changes form

TRANSFORM • Energy changes location

Energy of position • • Elastic PE

Energy transfer • • Kinetic Energy

Energy of motion • Chemical PE

• Gravitational PE Energy stored in

molecular configurations •

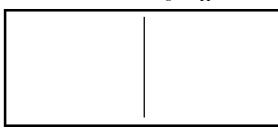
• Work

Energy stored in

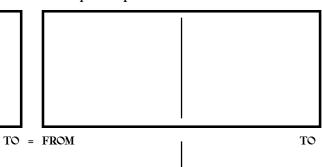
temporary deformation •

In each step of the sequence, an energy transformation is occurring. Draw initial and final images for each step and describe the initial and final types of energy and the object that has the energy. All descriptions should include words such as "in the." In each process, indicate whether energy is transferred, transformed, or both.

1. The vaulter accelerates along the approach.



2. The planted pole flexes.

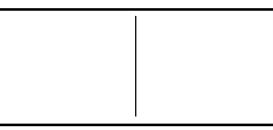


Energy was __Transferred _Transformed _Both

Energy was __Transferred _Transformed _Both

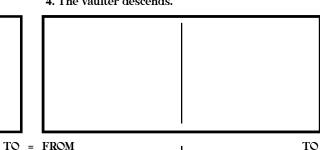
3. The vaulter rises.

FROM

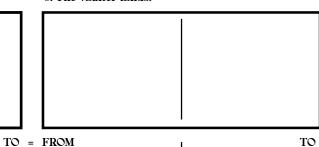


4. The vaulter descends.

FROM



5. The vaulter lands.



Energy was __Transferred _Transformed _Both

Energy was __Transferred _Transformed _Both

Energy was __Transferred _Transformed _Both

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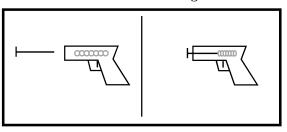
PhyzSketches: Energy Transformations

ENERGY AND THE DART GUN

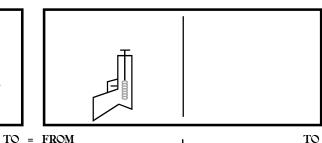


In each step of the sequence, an energy transformation is occurring. Draw initial and final images for each step and describe the initial and final types of energy and the object that has the energy. All descriptions should include words such as "in the."

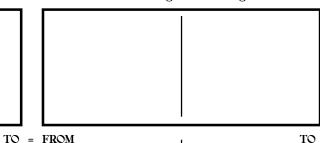
1. The dart is loaded into the gun.



2. The dart is fired.



3. The dart rises higher and higher.



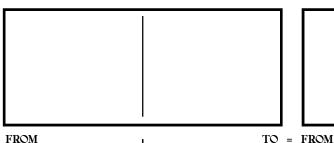
FROM
Chemical potential
energy in the
loader

Elastic potential energy in the spring

Energy was __Transferred _Transformed _Both

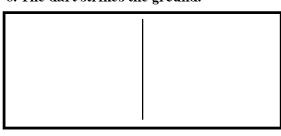
Energy was __Transferred _Transformed _Both

4. The dart falls back to Earth.

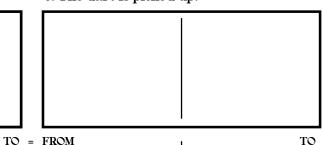


Energy was __Transferred _Transformed _Both

5. The dart strikes the ground.



6. The dart is picked up.



Energy was __Transferred _Transformed _Both En

Energy was __Transferred _Transformed _Both

Energy was __Transferred _Transformed _Both