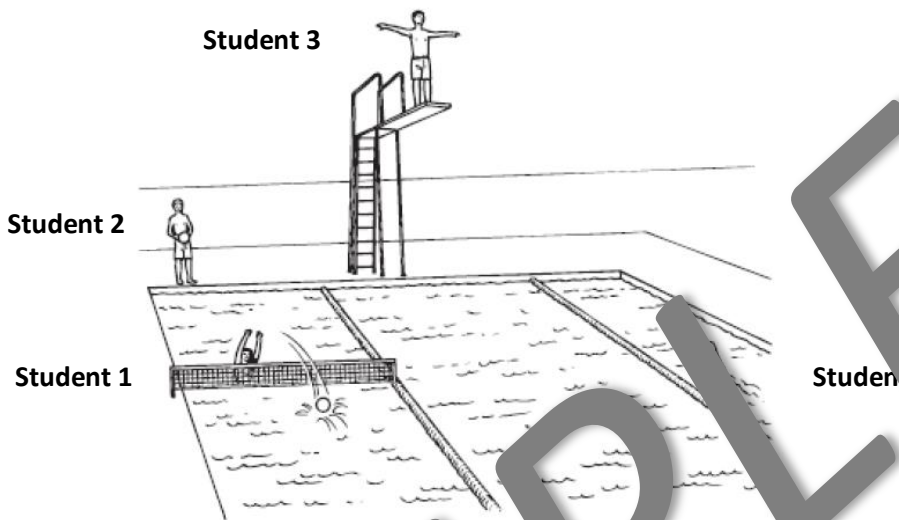


TEKS 6.8A PS 8.2CDE



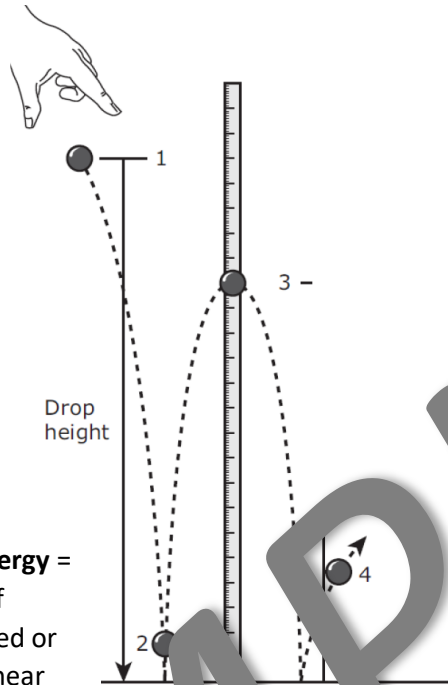
Gravitational Potential Energy	Kinetic Energy
Energy based on Height or Position from the ground	Energy based on motion or movement of the object

There are 4 students at a swimming pool doing certain activities. Complete the data table below to determine which type of energy the student is showing.

Student	Observed Activity	Energy
1	Playing water volleyball jumping up and down	
2	Standing near the edge of the pool	
3	Preparing to dive from the highest diving board	
4	Swimming laps back and forth	

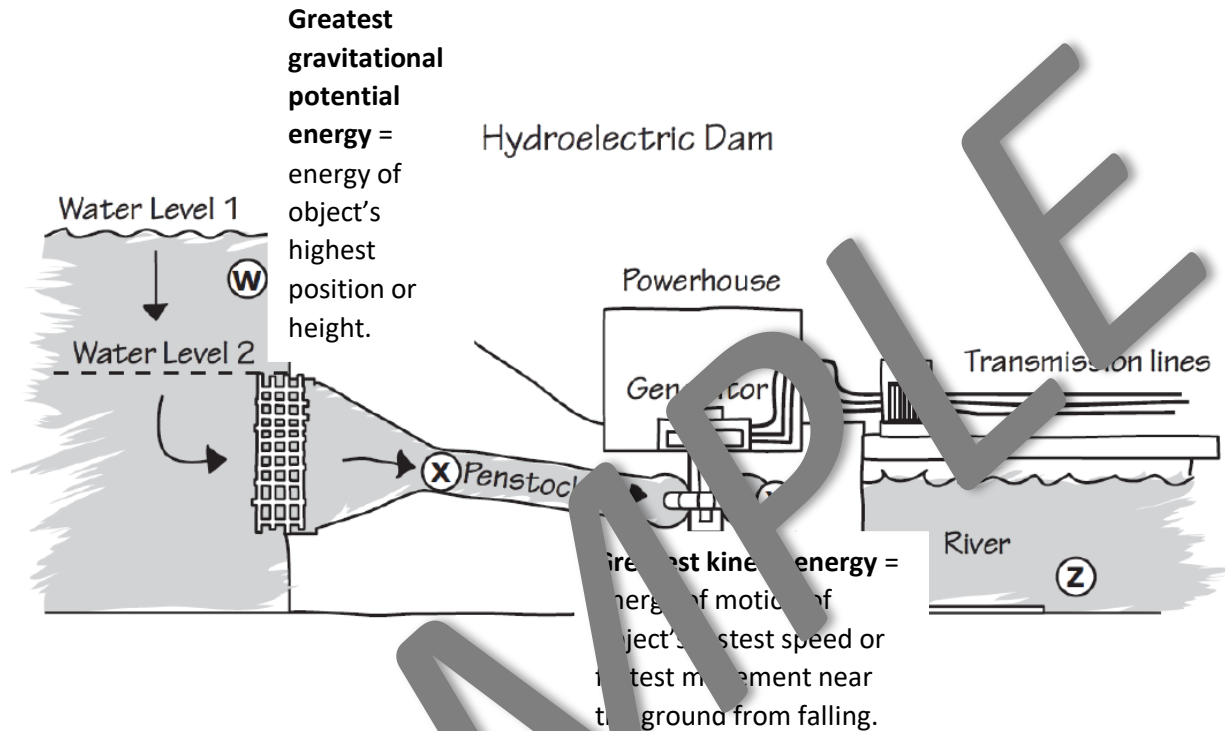
Greatest gravitational potential energy = energy of object's highest position or height.

Greatest kinetic energy = energy of motion of object's fastest speed or fastest movement near the ground from falling.



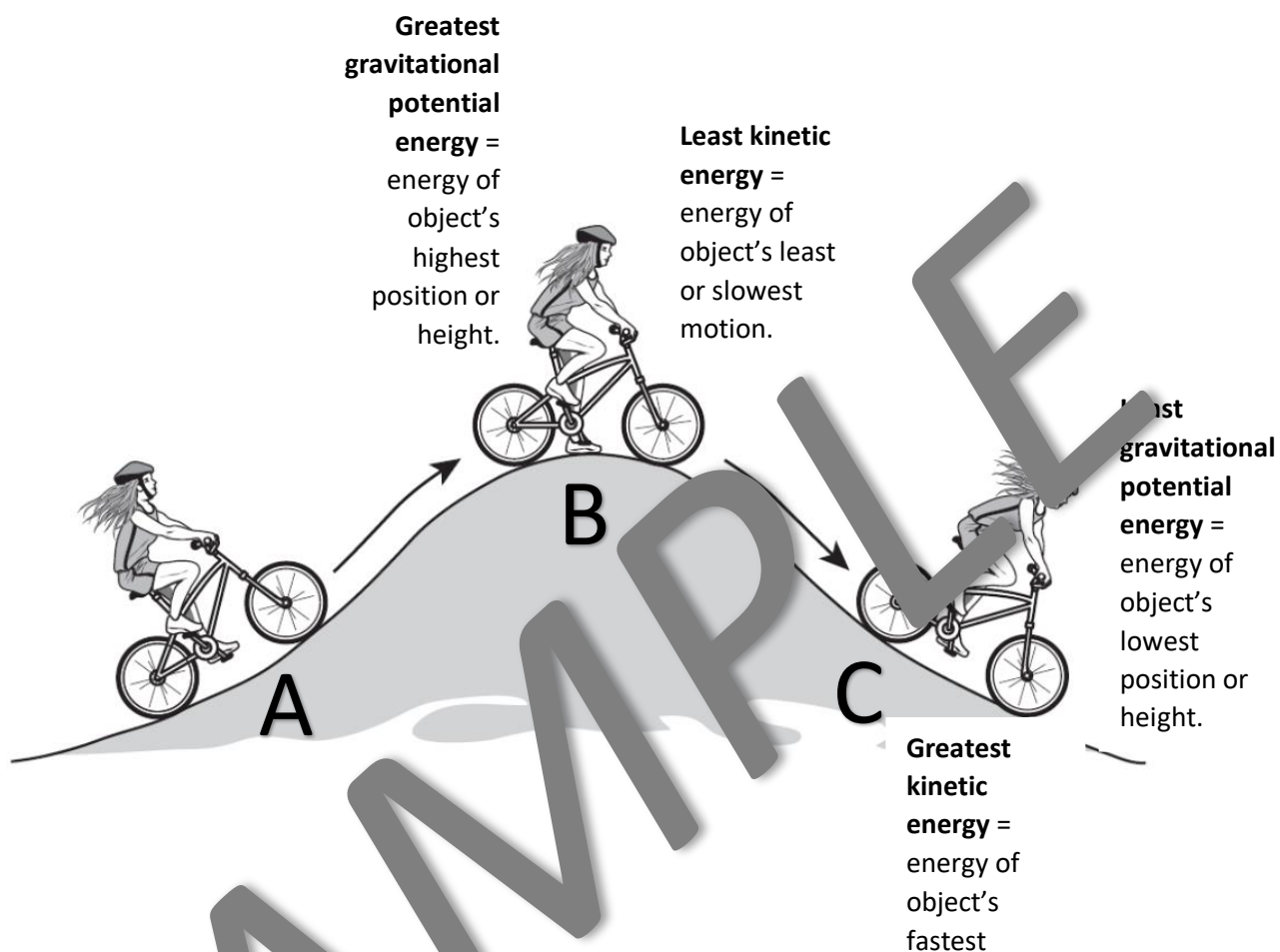
Using the diagram of the bouncing ball, describe the potential energy at position 1.

Using the diagram of the bouncing ball, describe the kinetic energy at position 2.



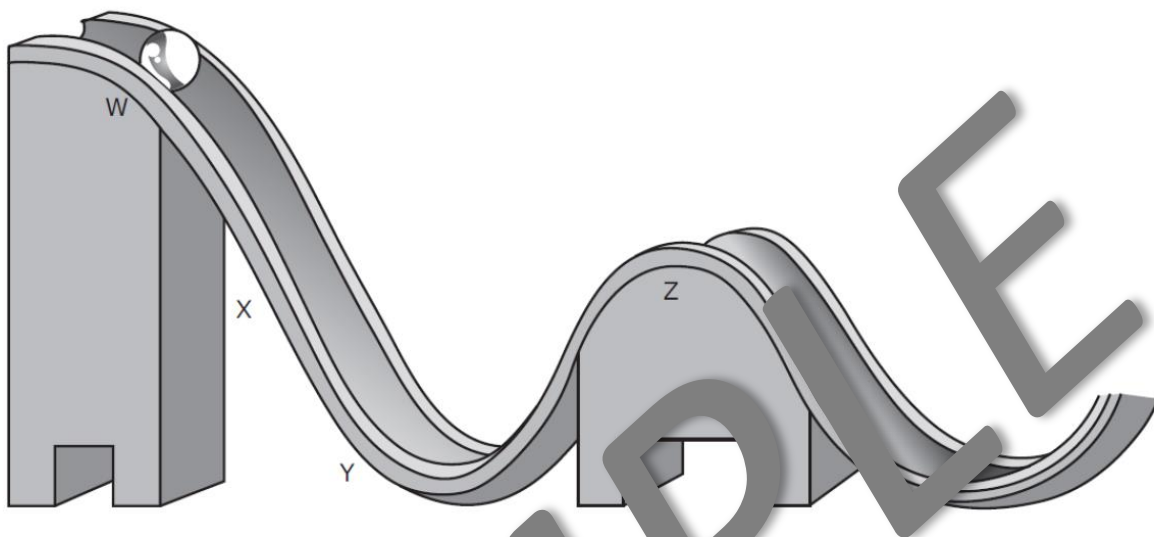
Using the diagram of the hydroelectric dam, describe the potential energy at position W.

Using the diagram of the hydroelectric dam, describe the potential energy at position Y.



Using the diagram of the girl riding a bicycle, describe the potential energy and kinetic energy at position B.

Using the diagram of the girl riding a bicycle, describe the potential energy and kinetic energy at position C.



Using the diagram of the marble ramp, describe the potential energy and kinetic energy at position W.

Using the diagram of the marble ramp, describe the potential energy and kinetic energy at position Z.