Notes - Conservation of Energy

- Energy can change form but in a closed, isolated system energy always remains constant. This understanding is called the <u>law of conservation of energy</u>.

- Ball thrown up Explanation:

- $E_k + E_p = E_k + E_p$ This says that the initial kinetic plus the initial potential equals the final kinetic plus the final potential.

- <u>Ex.</u> – A chunk of ice of mass $15.0\ kg$ falls off the school's roof which is $8.00\ m$ off the ground. What is the kinetic energy of the ice when it reaches the ground?

    <u>Answer</u> –

- <u>Ex.</u> – What is the speed when the ice reaches the ground?

    <u>Answer</u> -