

Corona Week 2

3. Kinetic E & Total Mechanical E



The softball player hits a pop-up fly with a velocity of ____ m/s straight upward.

Choose the ball's velocity to be between 10 and 40 m/s.

The softball's mass is 0.2 kg.

- What is the Kinetic Energy of the softball?
- When the softball gets to its maximum height, what will its Kinetic E be?
- When the softball gets to its maximum height, what will its Gravitational PE be?
- Calculate the softball's maximum height above where it was hit.



Max ht

The popper with mass ____ kg reaches a height of ____ m.

Choose the popper's mass to be between 0.1 and 0.3 kg.

Choose the maximum height the popper reaches to be between 0.8 and 1.5 m.

- How much Gravitational PE does the popper have at the top?
- How much Kinetic E did it start with on the ground before it rose to the maximum height?
- What must its start velocity have been?