Activity 2.1 Throw the ball

Throwing balls

Discussion:

1. What makes the ball fly into the air?

2. When is the ball travelling the fastest?

3. When is the ball travelling the slowest?

4. What happens to the motion of the ball as it rises and falls?

5. In the video, how did the downward motion of the thrown ball compare to that of the dropped ball?

6. How did the thrown ball originally get its energy? How did the dropped ball get its energy?

Notebook: Mechanical Energy

1. Summarise how kinetic energy (KE) and gravitational potential energy (GPE) are involved in the flight of a ball thrown into the air.

2. When did the ball have the most KE?

3. When did the ball have the most GPE?

4. How did the ball get its energy at the beginning?

5. Draw a simple diagram showing how KE and GPE are **transformed** during the flight of the ball.