

Part 1:

A boy throws a ball upward, as illustrated in the figure. Answer the following questions to gain a better understanding of this motion



| Question | Your answer |
|--|---------------------|
| What is the acceleration of the ball as the boy throw it? | |
| Did the boy give the ball initial velocity ? | Yes / No |
| What happens to the ball speed during its motion up ? | Increase / Decrease |
| What is the direction of the ball speed during its motion up ? | Up / Down |
| What is the speed of the ball at the maximum height ? | |
| What is the direction of the ball speed during its motion down ? | Up / Down |
| What happens to the ball speed during its motion down ? | Increase / Decrease |