**Unit 3 – Lab 3**

**Freefall**

1. Sketch the position vs time and the velocity vs time graphs in the space below.

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1. Do the graphs match your expectation of the motion of a falling object? Explain.
2. What does the slope of the velocity versus time graph tell you?
3. What would happen if we dropped different objects? What if we dropped a coffee filter?
4. On the Moon Apollo astronaut David Scott dropped a hammer and a feather at the same time. What happened? Why do you think that?
5. After having watched the video, how can you explain why that phenomenon happens on the Moon, but not the Earth?
6. What were the findings of Galileo, and what is the Law of Falling Bodies?