

MA Notes

- 1: acceleration - the time rate of change of an object's velocity
- 2: acceleration = $\frac{\text{final velocity} - \text{initial velocity}}{\text{time}}$
3. Free fall - the motion of an object when it is falling solely under the influence of gravity
- 4: in free fall, gravity accelerates an object
5. If nothing gets in the way of an object falling it will speed up because it is under constant acceleration due to gravity
- 6 air resistance is gas molecules that get in the way
7. gravity accelerates all objects equally
8. acceleration due to gravity is $9.8 \text{ meters per second}^2 = 32 \text{ ft per second}^2$