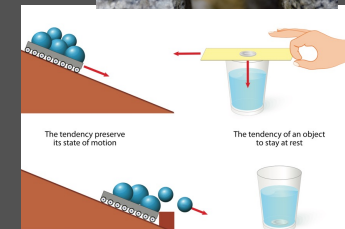
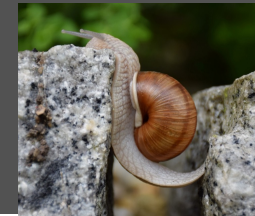
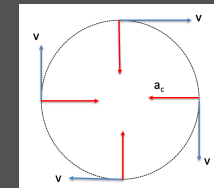
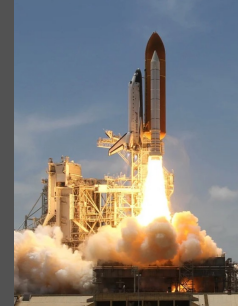
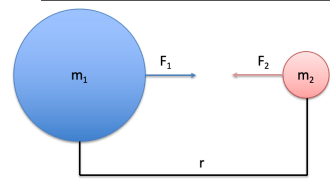


# Motion and Forces

## Senior Physics Unit

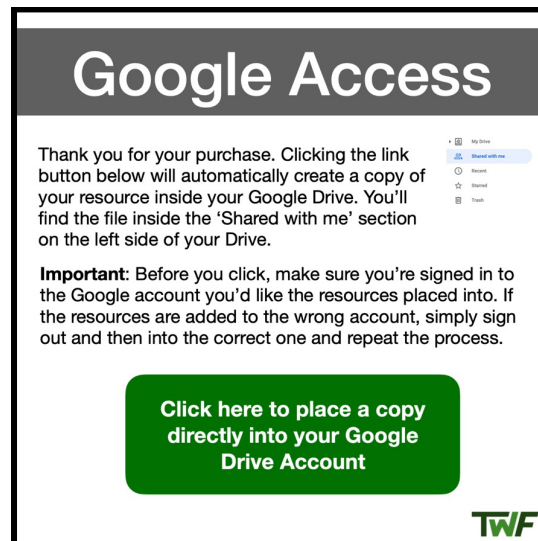
- 5-7 weeks of teaching material
- 11 Lessons in Office and Google Format and Daily Teaching Schedule
- 6 Activities
- 1 Unit Test with Answer Key
- 2 Quizzes with Answer Key
- 3 Unit Projects

1. Speed and Velocity in One and Two Dimensions
2. Acceleration in One and Two Dimensions
3. Acceleration due to Gravity
4. Projectile Motion
5. Frames of Reference
6. Forces and Free-Body Diagrams
7. Newton's Laws of Motion
8. Exploring Frictional Forces
9. Ramps, Pulleys, and Forces
10. Circular Motion
11. Universal Gravitation



# Office and Google Versions

- The lessons inside this unit come in both PowerPoint and Google Slides format
- Each lesson also contains an Exit Ticket that you can use to check for student understanding
- Your resource is perfect for distance learning and integrates seamlessly with Google Classroom as I've included a link that will automatically create a copy of the resources and put them directly into your Google Drive with one click



# Thank You For Your Interest

## Inside the Unit

- 5 - 7 weeks of teaching material
- 11 lessons
- Office and Google versions of EACH lesson
- Teacher and student versions for each lesson
- Many videos and simulations embedded into the slides
- Student notes in Word and Google Doc

### Newton's Second Law of Motion

- An object accelerates in the direction of the net force

$$F = ma \rightarrow a = \frac{F}{m}$$

- Acceleration increases as 'F' increases
- Acceleration decreases as 'm' increases



### Newton's Second Law of Motion

- An object accelerates in the direction of the net force
- The acceleration is directly proportional to the net force and inversely proportional to the object's mass

$$F = ma \rightarrow a = \frac{F}{m}$$

- Acceleration increases as 'F' increases
- Acceleration decreases as 'm' increases



### Objects in Circular Orbit

- Objects in space orbit larger masses due to the force of gravity between them.
- Then why isn't an object that is orbiting another in space (i.e., a TV satellite in outer space) simply get pulled down to the surface?

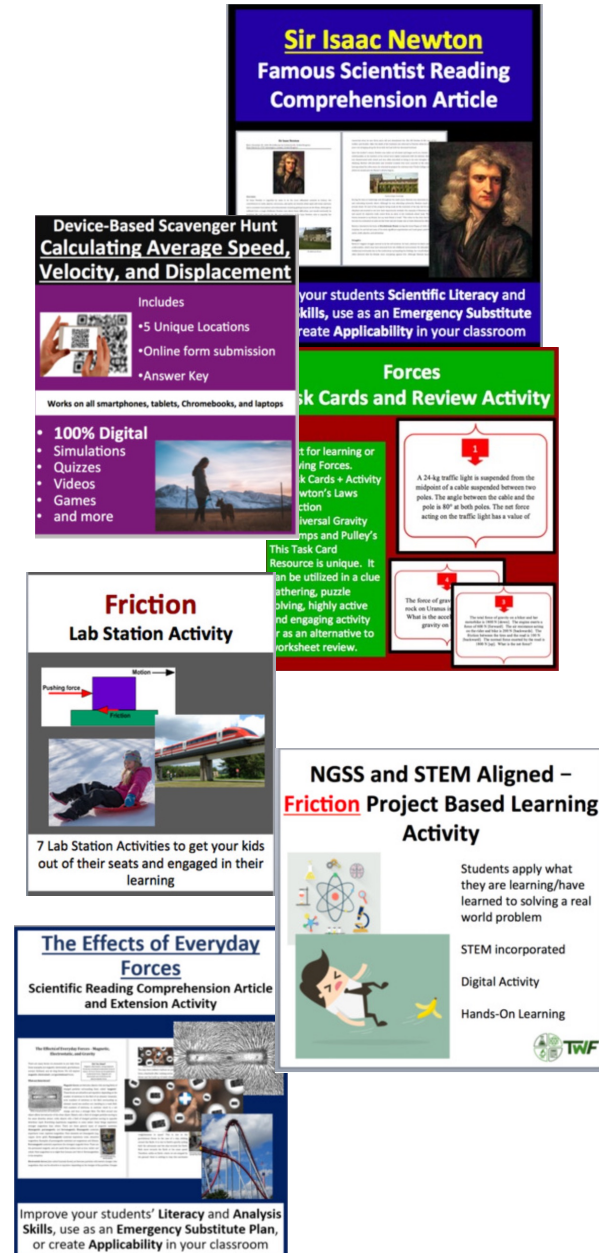


Videos embedded directly into the slides. One-click access.

# Thank You For Your Interest

## Inside the Unit

- 1 Unit Test with Answer Key
- 2 Quizzes with Answer Key
- 3 Unit Projects
- 1 Lab Station Activity
- 1 Digital Scavenger Hunt Activity
- 2 Readings
- Task Card Review Game



# Thank you for your interest

The following lessons are included.

1. Speed and Velocity in One and Two Dimensions
2. Acceleration in One and Two Dimensions
3. Acceleration due to Gravity
4. Projectile Motion
5. Frames of Reference
6. Forces and Free-Body Diagrams
7. Newton's Laws of Motion
8. Exploring Frictional Forces
9. Ramps, Pulleys, and Forces
10. Circular Motion
11. Universal Gravitation