

Newton's 2nd Law of Motion

- **** REVIEW ****

- Aristotle is considered by some to be the father of _____ . But some consider the mother of science to be before the father – from Africa.
- Galileo performed experiments in _____ .
- Newton is the father of Mechanics. He wrote the 3 Laws of _____ .
- Newton's First Law is *The Law of Inertia*.

An object at _____ tends to stay at _____ and an object in _____ tends to stay in _____ .

- A force is a _____ or a _____ . A force causes motion.

- **Force** causes which motion? _____

(otherwise the object stays at rest or at constant velocity).

- _____ causes a force that is in the _____ direction of the motion.
- The more the _____ the more the _____ .

(- twice the force, twice the acceleration ... 5 times the force, 5 times the acceleration)

- **Newton's 2nd Law of Motion:**

$$\mathbf{F = m a}$$