

## Newton and his laws

### Worksheet 3 Teacher's notes

1. It wasn't until the 17<sup>th</sup> century that Isaac Newton described the fundamental law of motion.
2. Things tend to keep on doing what they are already doing.
3. Objects in motion tend to stay in motion and object at rest tend to stay at rest.
4. Physicists call it the Law of Inertia which is which is a fancy way of saying that moving objects don't spontaneously speed up, slow down or change direction.
5. Newton's second law says that force is the product of mass times acceleration.
6. The more force you apply, the quicker you accelerate.
7. The harder you push on the pedals the bigger the force and the quicker you accelerate.
8. According to Newton's third law for every action there is an equal opposite reaction .