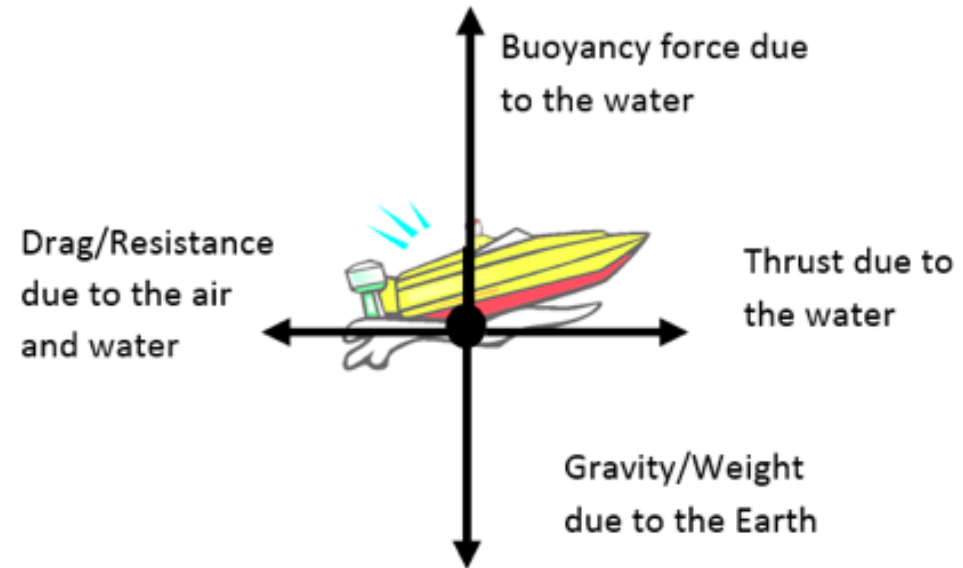


## Year 5 Autumn 1 Science- Forces

### Key facts

1. Gravitational force is a pull towards the centre of an object such as the Earth. All objects have a gravitational force, but the size of the force depends on the mass of the object.
2. Friction is the force from two surfaces rubbing together.
3. When objects fall through the air, the air resistance is the force that acts in the opposite direction of gravity.
4. Up thrust in water is the force pushing up against an object. If this force balances the gravitational force pulling the object down, then it will float.
5. If you want to lift a really heavy weight, there's only so much force your muscles can supply, even if you are the world's strongest man. But use a simple machine such as a pulley and you can multiply the force your body produces.



### Scientific skills

- Measure accurately
- Plan a fair test
- Identify if my results are reliable
- Make and use predictions

### Useful Vocabulary

- gravity
- friction
- air resistance
- up thrust
- weight
- Newton's
- push
- pull
- balance
- particles

