

# Force Intro Notes Week 24

## Monday

# What is a force?

A force is a push or a pull;  
A force can make objects move or stop  
A force is a VECTOR- it has intensity & direction  
A Force is anything that changes the speed and/or direction so it **CAUSES** acceleration

# Types of Forces

There are two types of forces:  
Contact & Non-contact forces



# Types of Forces

Contact Forces- forces that come in contact with the object-

- FRICTION
- AIR RESISTANCE
- NORMAL
- TENSIONAL
- APPLIED

# Types of Forces

## Contact Forces-

- **FRICTION**- force from two objects rubbing against each other
- **AIR RESISTANCE**- force from air molecules rubbing against a moving object

# Types of Forces

## Contact Forces-

- **NORMAL** – force of an a surface pushing up. Example- a book resting on a table, the table is keeping the book up
- **TENSIONAL**- force of a string or line
- **APPLIED**- force applied by muscles

# Types of Forces

**Non-Contact Forces-** forces that act on objects from a distance

- **GRAVITY**
- **MAGNETISM**
- **ELECTRICITY**
- **Nuclear**

# Types of Forces

**Non-Contact Forces-** forces that act on objects from a distance

- **GRAVITY-** force of attraction between two objects
- **MAGNETISM-** force of attraction between magnetic materials
- **ELECTRICITY-** force of pushing electrons
- **Nuclear-** force that holds atoms together