

## RSNR120 Lectures – Ag technology, biophysics

### Lecture 17 – Physics, the fundamental science

#### Food security

- There are 3 more mouths to feed every second

#### Fuel security

- Alternative to fossil fuels – biofuels
- Biofuels will reduce storage of C in soil

#### Water security

- Produce more food with less water

#### Why we need biophysics

- We have less water
- Bigger properties
- More people to feed

#### Challenges

- Reduce GHG, dependency on water

#### Physics

- Studies the nature of matter and the interactions that govern its behaviour

#### Mathematics

##### Example

$$1.23 \times 10^2 \times 4.66 \times 10^1 = \\ (1.23 \times 4.66) \times 10^{2+1} = 5.98 \times 10^3$$

#### Scalars and vectors

- **Scalar quantity** – a physical quantity described by a single number → time, temperature, mass, density, speed
- **Vector quantity** – a physical quantity described by both magnitude and direction → motion of an aeroplane, displacement, velocity, acceleration

#### Adding vectors (head to tail!)

- Eg **force is a vector**
- When adding vectors, have to take into consideration the direction
- Example, one person pulls east on the wire with a force of 15N and the other person is pulling towards the north on the wire with a force of 20N, what is the net force on the post

- o 5 N

- Graphical addition



- o
- o The diagonal distance is 50, hence force equalling 50N
- o For subtraction of the same values as above (where the first force is going down) we will still get the same resultant force, just acting in a different direction

- **Trigonometric method** – for vectors at right angles

- o  $C^2 = A^2 + B^2$

- o Angle can be calculated using inverse of tan of B/A

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