

Year 11 Equation Sheet, Newton's Laws

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

$$\vec{F}_1 = -\vec{F}_2$$

Acceleration due to gravity: $g = 9.8\text{ms}^{-2}$

Checklist: (when you write the final answer to a question)

- Have I answered the **question**? (read the question again using The Question list below to be sure)
- Have I used the **prefixes** correctly? (check the values given in the question)
- Have I written the correct **units**?
- Have I written the answer to the correct **s.f.** ?
- Have I written the **direction** if necessary?

Prefixes:

Prefix name	Prefix symbol	Replace with
nano	n	$\times 10^{-9}$
micro	μ	$\times 10^{-6}$
milli	m	$\times 10^{-3}$
centi	c	$\times 10^{-2}$
kilo	k	$\times 10^3$
mega	M	$\times 10^6$
giga	G	$\times 10^9$

The Question:

*answer **the** question*

*the **whole** question*

***nothing but** the question*

1. What is the context?
2. (sometimes) What *must* I use?
3. What is the concept being tested?
4. What are the *action* words?
5. Any other important words?