Wider reading and research

These are important skill to develop to achieve success at A level. To get you started choose one of the activities below. Bring in your research on the first Physics lesson in September.

EITHER: Search Youtube minute physics

<u>https://www.youtube.com/results?search_query=minute+physics</u> Choose any one minute physics topic that you are interested in and produce a short review using the criteria below.

OR: Search new scientist

<u>http://www.newscientist.com/topic/lastword/</u> Choose any physics related article you are interested in and produce a short summary using the criteria below

You should include

The topic An overview/ quick summary At least 5 bullet point facts from the video

Data sheet			
Quantity	Symbol	Value 8	Units ⁻¹
speed of light in vacuum	С	3.00 × 10 [°]	m s
permeability of free space	μ _o	$4\pi \times 10^{-7}$	H m ⁻¹
permittivity of free space	ε ₀	8.85 × 10 ⁻¹²	F m ⁻¹
magnitude of the charge of electron	е	1.60 × 10 ⁻¹⁹	С
the Planck constant	h	6.63×10^{-34}	Js
gravitational constant	G	6.67×10^{-11}	N m kg 2 kg
the Avogadro constant	N _A	6.02×10^{23}	mol ⁻¹
electron rest mass	m _e	9.11 × 10 ⁻³¹	kg
proton rest mass	m p	-27 1.67(3) × 10	kg
neutron rest mass	$m_{_{ m n}}$	1.67(5) × 10 ⁻²⁷	kg
gravitational field strength	g	9.81	N kg ⁻¹
acceleration due to gravity	g	9.81	s 2 m
atomic mass unit	u	1.661×10^{-27}	kg
mass of the Sun		1.99 × 10 ³⁰	kg
mean radius of the Sun		6.96 × 10 ⁸	m
mass of the Earth		5.98 × 10 ²⁴	kg

mean radius of the Earth