

Frome College Science



Raising Achievement Year 11

2018 Results

78% of students gained at least one level 4 in combined science

95% of students gained a level 4 in chemistry

56% of students gained at least two level 4's in combined science

98% of students gained a level 4 in physics

39% of students gained a level 7+ in biology

100% of students gained a level 4 in biology

Progress 8 prediction +0.27 for combined science

46% of students gained a level 7+ in physics

29% of students gained a level 7+ in chemistry

Where do the science marks come from?

- Factual recall (keywords) 40%
- Explanation 40%
- Analysis and interpretation 20%

Usually about 20-25% is based on required practicals

Where do the science marks come from?

- Factual recall (keywords) 40%

	Combined (H)	Combined (F)	Biology	Chemistry	Physics
Level 4	23%	52%	27%	26%	26%
Level 7	51%	NA	51%	56%	51%

Higher tier vs. foundation

0 3 . 5 Table 1 shows data about different ways to power electric cars.

Table 1

	Hydrogen fuel cell	Rechargeable lithium-ion battery
Time taken to refuel or recharge in minutes	5	30
Distance travelled before refuelling or recharging in miles	Up to 415	Up to 240
Distance travelled per unit of energy in km	22	66
Cost of refuelling or recharging in £	50	3
Minimum cost of car in £	60 000	18 000

Evaluate the use of hydrogen fuel cells compared with rechargeable lithium-ion batteries to power electric cars.

Use **Table 1** and your own knowledge.

[6 marks]

How to succeed?

- Encourage
- Start early
- Focus on key terms and required practicals
- Come to intervention
- Use different resources

Intervention

21/09/2018	Energy transfers and equations
28/09/2018	Energy resources
05/10/2018	Current and potential difference
12/10/2018	Resistance required practical
19/10/2018	Resistance
26/10/2018	Half term
02/11/2018	Mains electricity
09/11/2018	Electricity equations
16/11/2018	Particle model and density
23/11/2018	Specific heat capacity and specific latent heat
30/11/2018	Radioactivity
07/12/2018	Half life
14/12/2018	General last minute help session
18/11/2018	Christmas holiday

Wednesday : Biology
with Mr Jones in S9

Thursday: Chemistry
with Mr Webber in S13

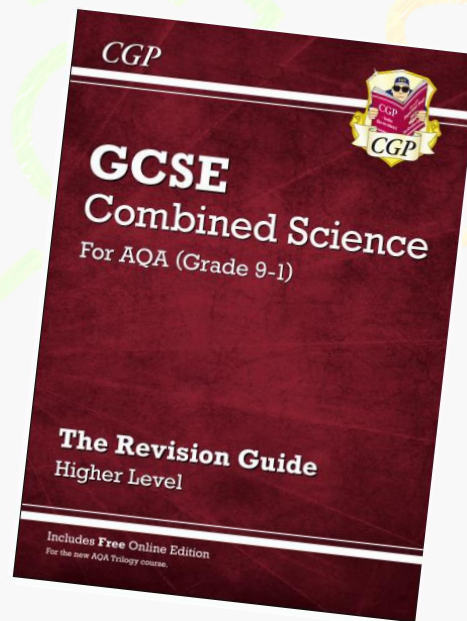
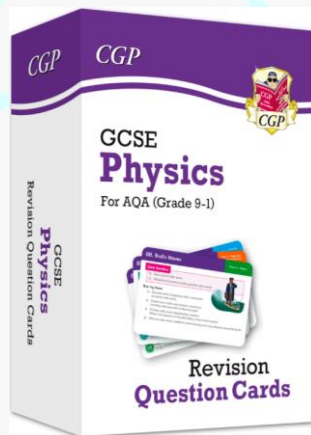
Friday: Physics with Miss
Childs in S1

3-4pm

Resources

Shared drive (via
the school website)

SAM Learning



Name

- 26 New GCSE Science Required Practical 6 Mark Questions
- CGP GCSE 10 min tests
- Kerboodle progress tests
- Keywords
- Knowledge mats
- Past paper resources
- Physics equations
- PLCs
- Required Practical Summaries
- Revision summaries (PixL)
- trilogy ppts
- Past paper resources