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# **Options Evening 2019**

**Welcome**

# Outline

- Briefing by the Head of Year
- Core Subjects Presentations
- Opportunity to visit each subject department and discuss the subject with specialists



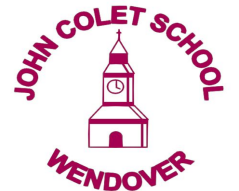
# Why are we here tonight?

1. To gain a better understanding of the options process
2. To help your child to make informed decisions
3. To give you an opportunity to ask questions with subject specialists



# 1. To gain a better understanding of the options process

- Selecting GCSE subjects that will be examined in 2022
- Online selection system
- Parents have the final say!



# How to choose

- Students log onto the online SIMS system
- Select the subjects you want and one reserve
- The SIMS system will close on 14th February 2019



# How to choose: The Compulsory Choice

## Compulsory Choice

**One choice must be selected from the list of courses below.**

If you wish to choose another subject from this group, please select it in the Open Choice category below.

You have chosen   courses from this list


**French** GCSE 9 - 1 Full Course

 This course is also available in Open Choice


**Geography** GCSE 9 - 1 Full Course

 This course is also available in Open Choice

**History** GCSE 9 - 1 Full Course

 This course is also available in Open Choice

**Spanish** GCSE 9 - 1 Full Course

 This course is also available in Open Choice



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# How to choose: Open Choice

## Open Choice

**Three choices must be selected from the list of courses below. You can also select one additional subject as a reserve.**

Please note you cannot choose to study both Art and Photography, you must select one or the other. You can also only choose one Design Technology subject.

You have chosen 0 of 3  courses and 0 of 1  reserves from this list

**Art** GCSE 9 - 1 Full Course

Reserve

**Business Studies**

GCSE 9 - 1 Full Course

Reserve

**Computer Science**

GCSE 9 - 1 Full Course

Reserve

**Drama** GCSE 9 - 1 Full Course

Reserve

**Food and Nutrition**

GCSE 9 - 1 Full Course

Reserve

**French** GCSE 9 - 1 Full Course

Reserve

**i** This course is also available in Compulsory Choice

**Geography** GCSE 9 - 1 Full Course

Reserve

**Design Tech: Papers and Boards**

GCSE 9 - 1 Full Course

Reserve

**History** GCSE 9 - 1 Full Course

Reserve

**i** This course is also available in Compulsory Choice

**Information Technologies**

Cambridge Nationals Certificate Level 1 & 2

Reserve

**Music** GCSE 9 - 1 Full Course

Reserve

**Physical Education**

GCSE 9 - 1 Full Course

Reserve

**Design Tech: Timbers**

GCSE 9 - 1 Full Course

Reserve

**Photography** GCSE 9 - 1 Full Course

Reserve

**Religious Studies**

GCSE 9 - 1 Full Course

Reserve

**Spanish** GCSE 9 - 1 Full Course

Reserve

**Design Tech: Textiles**

GCSE 9 - 1 Full Course

Reserve

**i** This course is also available in Compulsory Choice

# How To Choose: What's possible and what's not

- You can only choose one technology subject in total
- Art and Photography CANNOT both be chosen
- All the information is available at the back of the students' booklet





## 2. How has the school prepared the students to make informed decisions?

- GCSE information lessons
- Student guidance booklets
- Interviews for some students
- Form Tutor discussions opportunities
- Students have logged into the online choice system
- The School Report
- Parents Evening feedback from teachers



### 3. What are the important questions to ask?

- What are the key skills needed for the subject?
- Is there any coursework?
- What is the exam structure like - question types, time allowed, equipment needed?
- What career prospects would the subject provide?
- Is my son/daughter suited to the subject?



# Key points to consider - be honest

- How has your son/daughter been performing in the subject?
- What is their Attitude to Learning like in the subject?
- Would your child be best to do a subject with coursework or not? Are they self motivated, organised and able to keep to deadlines?
- Does your son/daughter have career plans already?  
Could this subject help?
- Does your son/daughter have A level or university plans?

# Pitfalls - don't choose something because...

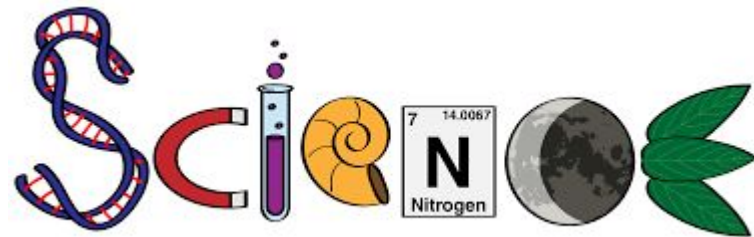
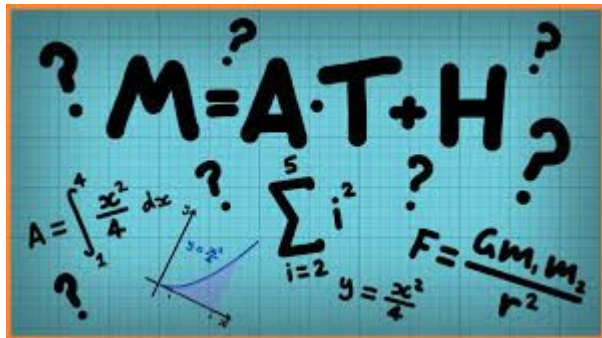
- “I really like the teacher!”
- “My friends are doing that!”
- “I would get better results if I revised!”
- “I just want to do something new!”



# Important Dates

- **14th February** - online system closes
- **First week of March** - Students preferred options sent home for confirmation by parent/carer. Please sign and return ASAP.
- **Friday 24th May** - Students informed of their GCSE option subjects.
- **Friday 14th June** - deadline for changes to be registered with the school to:  
[options@johncolet.co.uk](mailto:options@johncolet.co.uk)
- **Tuesday 1st October** - No further changes possible between courses.





# Core Subjects



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# SCIENCE GCSE COURSES



# Science

At the end of Year 8 all students complete the KS3 Science Curriculum.

This is a topic based course designed to give students a solid foundation for the Biology, Chemistry and Physics key concepts and practical skills required at GCSEs.





# Combined Science Trilogy – 2 GCSEs awarded

## Biology

- Cell Biology
- Organisation
- Infection and response
- Bioenergetics
- Homeostasis
- Inheritance, evolution
- Ecology

## Chemistry

- Atomic structure, Periodic table
- Bonding and Matter
- Quantitative chemistry
- Chemical Changes
- Energy Changes
- Rates
- Organic chemistry
- Chemical analysis
- Using resources

## Physics

- Forces
- Energy
- Waves
- Electricity
- Magnetism, Electromagnetism
- Particle model of matter
- Atomic structure.

**ADDED TOGETHER MAKES TWO GCSEs**

# GCSE Biology GCSE Chemistry GCSE Physics

## Biology

- Cell Biology
- Organisation
- Infection and response
- Bioenergetics
- Homeostasis
- Inheritance, evolution
- Ecology

## Chemistry

- Atomic structure, Periodic table
- Bonding and Matter
- Quantitative chemistry
- Chemical Changes
- Energy Changes
- Rates
- Organic chemistry
- Chemical analysis
- Using resources

## Physics

- Forces
- Energy
- Waves
- Electricity
- Magnetism, Electromagnetism
- Particle model of matter
- Atomic structure.
- Space Physics

**3 SEPARATE GCSEs**

# GCSE Science: Assessment

All Exams are taken at the end of Yr 11

Combined Science Trilogy – 2  
GCSEs

No coursework

**6 exam papers lasting 1hr 15  
mins each.**

GCSE Biology  
GCSE Chemistry  
GCSE Physics

No coursework

**6 exam papers lasting 1hr 45  
mins each**

# There is No coursework in GCSE Science

Investigative skills and practical knowledge are now assessed in the terminal exam papers – Required Practicals

**REQUIRED PRACTICAL** **Electrolysis**

**Investigating the elements formed at each electrode when different salt solutions are electrolysed.**

**Method**

1. Add 50cm<sup>3</sup> of copper chloride solution to a 100cm<sup>3</sup> beaker.
2. Insert carbon electrodes (ensure they do not touch)
3. Connect the electrodes to a 4V power supply.
4. Observe changes at the electrodes, such as bubbling.
5. Hold a piece of blue litmus paper in the solution next to the positive electrode.
6. Switch off the power supply after a maximum of 5 minutes.
7. Examine the negative electrode. Is there a coating on it?
8. Clean the equipment and repeat steps 1 to 7 with other solutions.

**Other solutions to test**

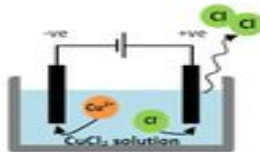
- Copper sulphate
- Sodium chloride
- Sodium sulphate

**Risk Assessment**

- Copper sulphate solution may irritate skin and eyes. Wear goggles, rinse skin or eyes if it comes into contact.
- Chlorine gas produced. Use low concentrations of solution. Carry out in ventilated room, use 4V maximum and for 5 minutes maximum.

**The Science**

Positive metal ions collect on the negative electrode.



Negative ions collect at the positive electrode.

**When electrolysing aqueous solution (salts dissolved in water):**  
If a halide (group 7) ion is present it will form a gas at the negative electrode. For example a solution of sodium chloride will form Cl<sub>2</sub> gas. Otherwise, oxygen will form (eg. copper sulphate will produce oxygen)  
If the metal is more reactive than hydrogen it will stay in solution and hydrogen will form. Copper is less reactive so forms on the electrode.

This is to test for chlorine, which will turn the litmus paper red (it is acidic) then white (chlorine is a bleach). If oxygen is produced the litmus paper will not change colour.

**Half equations**

At the positive electrode ions lose electrons:  
 $2\text{Cl}^- \rightarrow \text{Cl}_2 + 2\text{e}^-$  OR  $2\text{Cl}^- - 2\text{e}^- \rightarrow \text{Cl}_2$

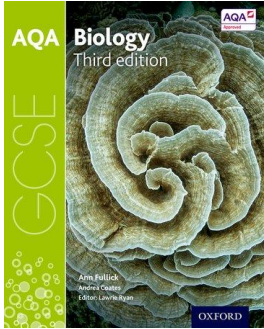
At the negative electrode ions gain electrons:  
 $\text{Cu}^{2+} + 2\text{e}^- \rightarrow \text{Cu}$

# In Year 9 and 10 ALL STUDENTS are taught **Biology, Chemistry and Physics topics**

<b>Year 9</b>		
<b>Biology (3)</b>	<b>Chemistry (3)</b>	<b>Physics (3)</b>
Communicable disease classification	The periodic table Fuels and feedstocks	Forces 1 Motion
Heart and Lifestyle disease	Rates of reaction	National and global energy resources

<b>Year 10</b>		
<b>Biology (4)</b>	<b>Chemistry (3)</b>	<b>Physics (3)</b>
Cell structure Cell division	Bonding <i>Nano science</i>	Waves and Light Energy stores
Transport in cells	Reactions of acids	Electricity basics

# Support and helpful links



**Every student  
has access to  
Kerboodle**

**Required  
Practical  
Booklets –  
Application of  
technique**

**[www.youtube.co.uk](http://www.youtube.co.uk)**

**[Freesciencelessons.co.uk](http://Freesciencelessons.co.uk)**

**[www.bbc.com/bitesize](http://www.bbc.com/bitesize)**

**Equation sheet  
Recall and  
rearrange**

# GCSE English Language and English Literature



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# 2 separate subjects

- ▶ English Language & English Literature. Exam Board: AQA
- ▶ All students will study both subjects, with the same teacher for both
- ▶ At the end of Year 11 the students will come out with 2 separate GCSEs





## English Language

Creative writing

Analysing and writing non-fiction texts such as newspaper articles, speeches, letters

Writing persuasive or argumentative pieces where you are putting your opinion across

Understanding how to use language differently with different people and in different contexts

**20% of marks will be awarded for accurate spelling, punctuation and grammar**

## English Literature

Reading and analysing a range of novels, poems and plays

Looking at the context of these texts – when were they written? What was going on at this time? How did this affect what was written?

Coming up with your own views, ideas and interpretations of the texts

Developing original, independent thought



# Assessment Summary

- ▶ 4 exams at the end of Year 11
- ▶ 2 in English Language
- ▶ 2 in English Literature
- ▶ There is no coursework



# Speaking and Listening

- ▶ This will also be assessed separately
- ▶ The marks will not count towards the English Language grade
- ▶ A separate Speaking and Listening mark will be awarded



# How it will be taught

- ▶ The students are currently set by ability in English – this will continue through the GCSE course.
- ▶ We have 3 sets on each side of the year group.
- ▶ There will be movement between sets as necessary.



# Assessment

- ▶ With the removal of coursework, the students will be regularly assessed under exam conditions throughout the GCSE course
- ▶ They will have formal assessments throughout each term
- ▶ End of year exams at the end of Years 9 and 10
- ▶ Mock exams in Year 11



# GCSE MATHS

Good mathematics is  
not about how many  
answers you know...  
It's how you behave  
when you don't know.

~Author unknown

## Maths Strategies

**C** circle key numbers

**U** underline the question

**B** box any maths action words  
+ - x ÷

**E** evaluate (what steps do I take?)

**S** solve & check ✓

# Mathematics

Exam board: EDEXCEL

- \* 3 papers: 33.3% each.
- \* 80 marks each
- \* 1 non-calculator paper + 2 calculator papers
- \* Higher tier: grades 9-4
- \* Foundation tier: grades 5-1



# The importance of maths

\*\*\*\*Minimum grade requirements for entry to post 16 courses is Grade 4. If this is not achieved, students will need to continue with GCSE Maths post Year 11 \*\*\*\*

To study A Level Maths at John Colet you need a Grade 6+



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# MATHEMATICS – the road to success!

**HOMEWORK** is very important. Those students who complete homework to a high standard get consistently better results.

Those students that attend **REVISION** sessions perform better in their exams

**EQUIPMENT:** pen, pencil, ruler, rubber protractor, compass and **CALCULATOR**  
**EVERY LESSON!**

## FOUNDATION

Assessment Objectives	Overall weighting of AOs (%)
Number	28%
Algebra	23%
Ratio, Proportion and Rates of change	28%
Geometry and Measures	18%
Statistics and Probability	18%

## HIGHER

Assessment Objectives	Overall weighting of AOs (%)
Number	18%
Algebra	33%
Ratio, Proportion and Rates of change	23%
Geometry and Measures	23%
Statistics and Probability	18%

**The assessment objectives place more emphasis on reasoning and problem solving.**

**GCSE All Years**  
**Higher & Foundation Support**  
**Thursday 3-4pm:**

Mrs Phillips in MA6:

support and help with exam preparation or homework



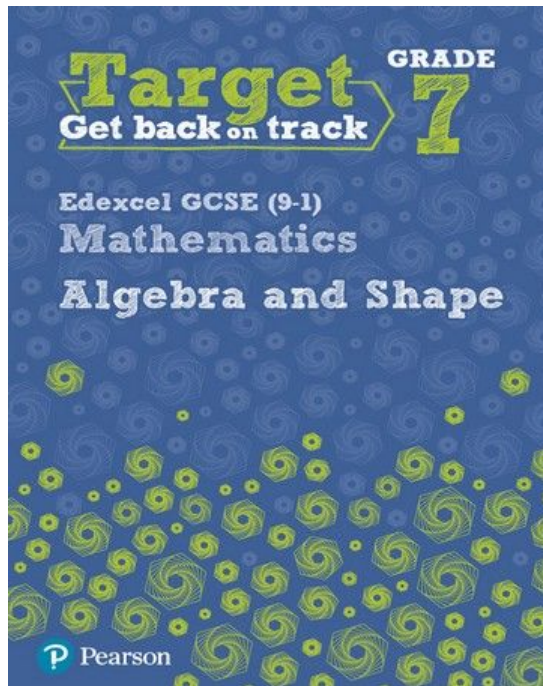
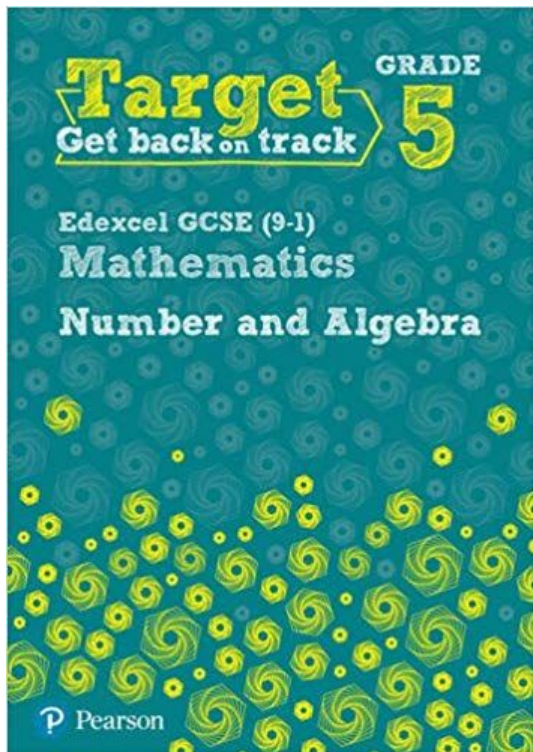
# Support and helpful websites

- **Student tracker sheet following the mocks/in class past papers:** Please use this to identify topics that need revisiting.
- **Maths Staff:** We operate an open door policy and are available for help- just come and find us!
- **MathsGenie.co.uk:** past papers and past paper questions on individual topics
- **Mymaths.co.uk:** Maths Boosters- these tasks provide students with the opportunity to cover the key Grade 5, 6 and 7 Grade topics.  
Login: colet  
Password: tangent
- **Corbett Maths:** Maths videos with worksheets attached and answers.  
[www.corbettmaths.com](http://www.corbettmaths.com)
- **Intervention-** you may be asked to attend intervention in a small group with Mrs Collins- take a positive approach and you will reap the rewards!

PIXL

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# Revision guides



- You can get them on Amazon
- There is one for each of the topic areas
- They help you through exam questions step by step

# Students: Questions you should be asking yourselves. BE PROACTIVE!



# Thank you

- Questions? See Mr Kenny or Mrs Abslom in the Hall



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Department	Room/s required
Art	Ar2
Business Studies	BS2
DT paper and Bc	Te6
Drama	Drama Room
English	
Food Preparation	Te1
Geography	HU 2
History	HU3
IT/Computing	IT1
Maths	MA3
MFL	LA2
Music	MU1
PE	PE1
Photography	Ar2
DT Timbers	TE2
RE	Hu5
Science	