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# Options Evening 2020

Welcome

# Outline

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

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# 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

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

- Selecting GCSE subjects that will be examined in 2023
- Online selection system
- Parents have the final say!

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# How to choose

- Students log onto the online SIMS system
- Select the subjects you want and one reserve
- The SIMS system will close on 13th February 2020

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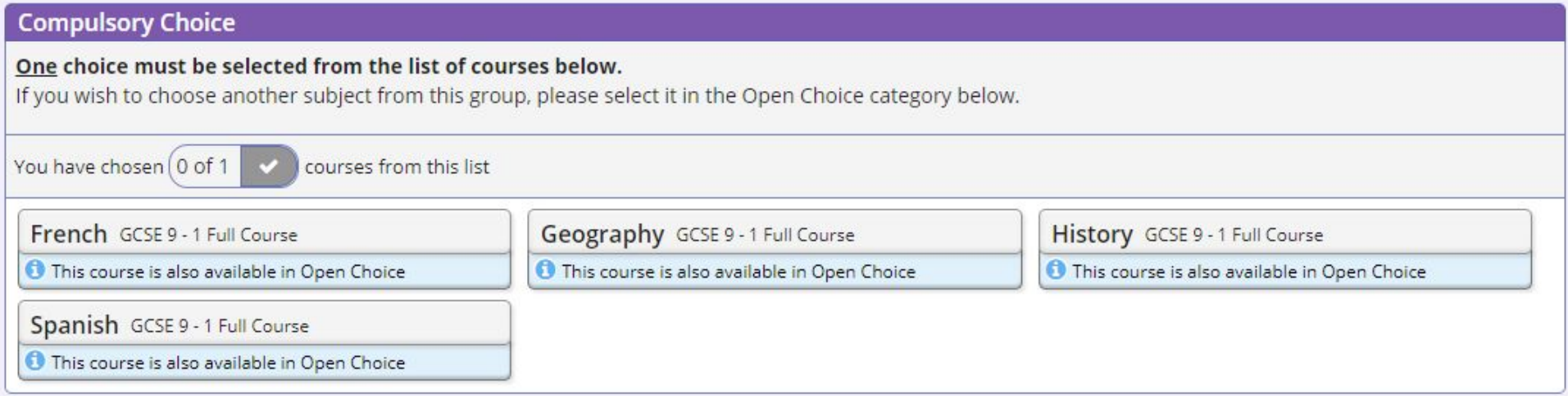
# **How to choose:** The Compulsory Choice

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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<br>This course is also available in Compulsory Choice |
| Geography GCSE 9 - 1 Full Course — Reserve<br>This course is also available in Compulsory Choice | Design Tech: Papers and Boards GCSE 9 - 1 Full Course — Reserve | History GCSE 9 - 1 Full Course — Reserve<br>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<br>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 front of the students' booklet

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# 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

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# 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?


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# 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!”

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# Important Dates

- **13th February** - online system closes
- **March -** Students *preferred* options sent home.
- **Summer Term -** Students informed of their GCSE option subjects.
- **Friday 12th June -** deadline for changes to be registered with the school to: **options@johncolet.co.uk**
- **Thursday 1st October -** No further changes possible between courses.

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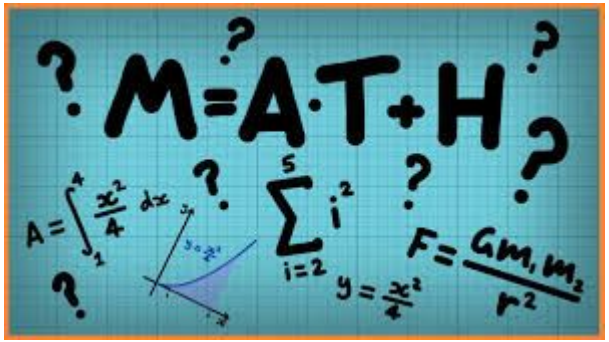


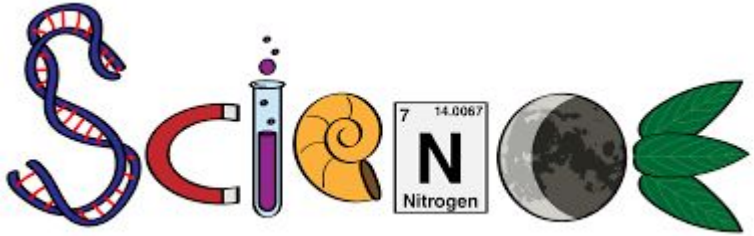


# Core Subjects


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

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

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

2 THIRDS BIOLOGY

2 THIRDS CHEMISTRY

2 THIRDS PHYSICS

**ADDED TOGETHER MAKES TWO GCSES**

# **GCSE Biology GCSE Chemistry GCSE Physics** 3
## SEPARATE GCSEs awarded

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

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

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

**1 GCSE Biology**

**1 GCSE Chemistry**

**1 GCSE Physics**

# GCSE Science

How are the New  Science GCSEs assessed?

All Exams are taken at the end of Yr 11

Combined Science Trilogy – 2 GCSEs

No coursework

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

| | | |
|---|---|---|
| B1 | C1 | P1 |
| B2 | C2 | P2 |

GCSE Biology

GCSE Chemistry

GCSE Physics

No coursework

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

| | | |
|---|---|---|
| B1 | C1 | P1 |
| B2 | C2 | P2 |

**(Additional content examined in each paper)**

# 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 50cm³ of copper chloride solution to a 100cm³ 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**

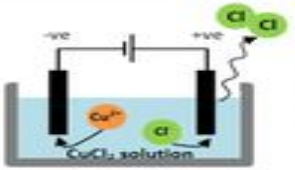
- Copper sulphate
- Sodium chloride
- Sodium sulphate

**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 $Cl_2$ 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:
$2Cl^- \rightarrow Cl_2 + 2e^-$ OR $2Cl^- - 2e^- \rightarrow Cl_2$

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

# BOTH PATHS LEAD TO A LEVELS

## GCSE Combined Science Trilogy

**Double award - Two GCSEs awarded**

**Linear course - Examined June of Yr11**

**6 papers each lasting 1hr 15 minutes**

| | | |
|---|---|---|
| **Biology 1** *Topics 1,2,3,4* | **Chemistry 1** *Topics 1,2,3,4,5* | **Physics 1** *Topics 2,4,6,7* |
| **Biology 2** *Topics 5,6,7* | **Chemistry 2** *Topics 6,7,8,9,10* | **Physics 2** *Topics 1,3,5* |

## GCSE Biology, GCSE Chemistry, GCSE Physics

**Triple award - Three separate GCSEs awarded**

**Linear course - Examined June of Yr 11**

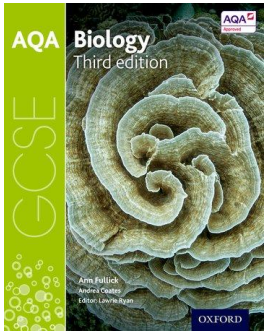
**6 papers Each lasting 1hr 45 minutes**

| | | |
|---|---|---|
| **Biology 1** *Topics 1,2,3,4* | **Chemistry 1** *Topics 1,2,3,4,5* | **Physics 1** *Topics 2,4,6,7* |
| **Biology 2** *Topics 5,6,7* | **Chemistry 2** *Topics 6,7,8,9,10* | **Physics 2** *Topics 1,3,5,8* |

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

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

| Year 10 | | |
|---|---|---|
| **Biology (4)** | **Chemistry (3)** | **Physics (3)** |
| Cell structure | Bonding | Waves and Light |
| Cell division | *Nano science* | Energy stores |
| Transport in cells | Reactions of acids | Electricity basics |




Every student has access to Kerboodle

Required Practical Booklets – Application of technique

www.youtube.co.uk

Freesciencelessons.co.uk

www.bbc.com/bitesize

Equation sheet Recall and rearrange

# GCSE English Language and English Literature

# 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 | English Literature |
| --- | --- |
| Creative writing<br><br>Analysing and writing non-fiction texts such as newspaper articles, speeches, letters<br><br>Writing persuasive or argumentative pieces where you are putting your opinion across<br><br>Understanding how to use language differently with different people and in different contexts<br><br>**20% of marks will be awarded for accurate spelling, punctuation and grammar** | Reading and analysing a range of novels, poems and plays<br><br>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?<br><br>Coming up with your own views, ideas and interpretations of the texts<br><br>Developing original, independent thought |

# English Literature texts

- *Macbeth* – William Shakespeare
- *An Inspector Calls* – J.B. Priestley
- *The Strange Case of Dr Jekyll and Mr Hyde* – Robert Louis Stevenson
- AQA Anthology Past and Present: Power and Conflict poems

- **No copies of any text can be taken into the exams**

# 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 3-4 sets on each side of the year group.
- There will be movement between sets as necessary.

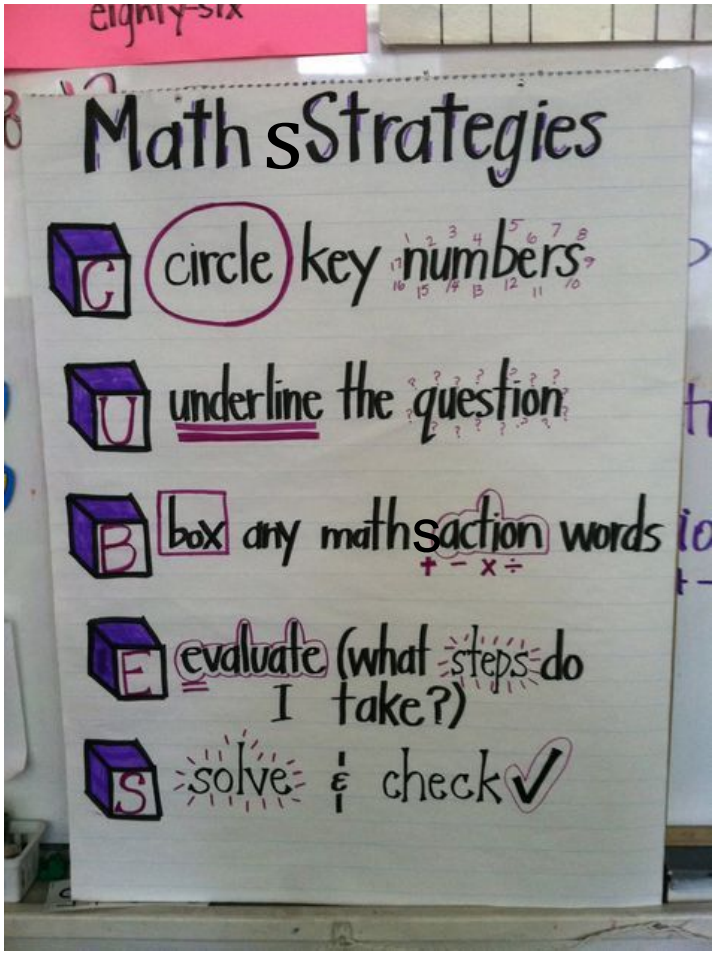
# Assessment

- 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



# Mathematics subject information

## 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

**Mathematics subject information**
**Exam board:EDEXCEL**

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

Check courses/Sixth form/what you want to do next as you may need a higher grade than a pass.

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

# 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

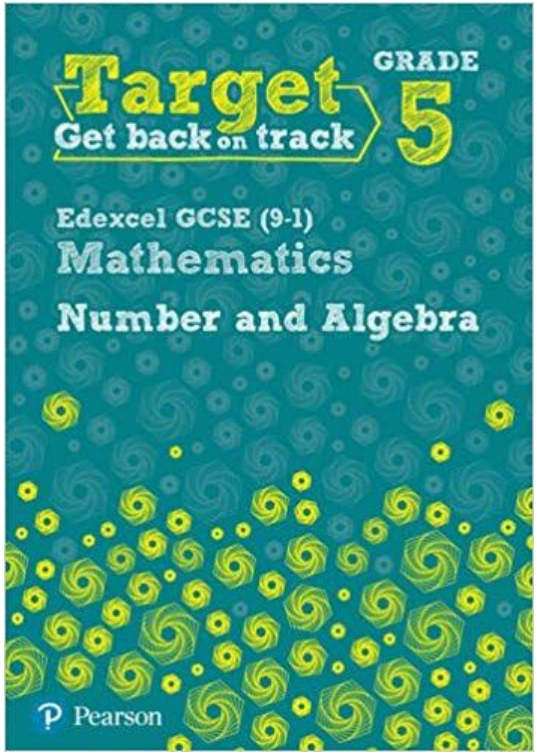
| Assessment Objectives | | Overall weighting of AOs (%) |
|---|---|---|
| Number | | 18% |
| Algebra | | 33% |
| Ratio, Proportion and Rates of change | | 23% |
| Geometry and Measures | | 23% |
| Statistics and Probability | | 18% |

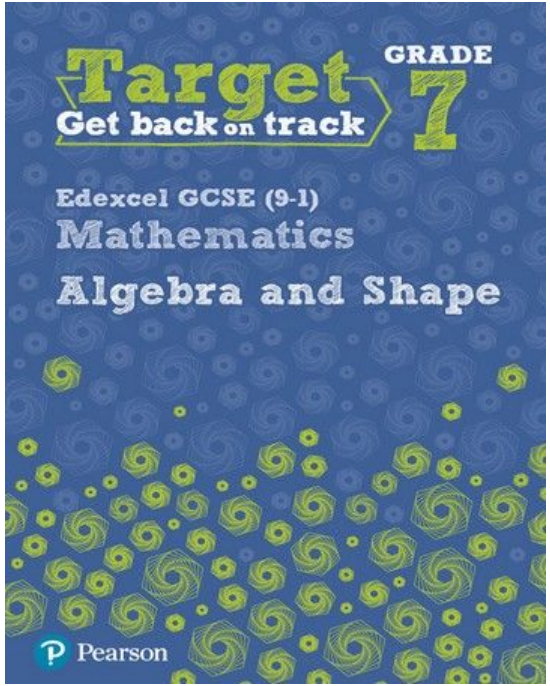
**The assessment objectives place more emphasis on reasoning and problem solving**.

# 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: probability
- **Corbett Maths**: Maths videos with worksheets attached and answers. www.corbettmaths.com
- **Intervention-** you may be asked to attend intervention in a small group!

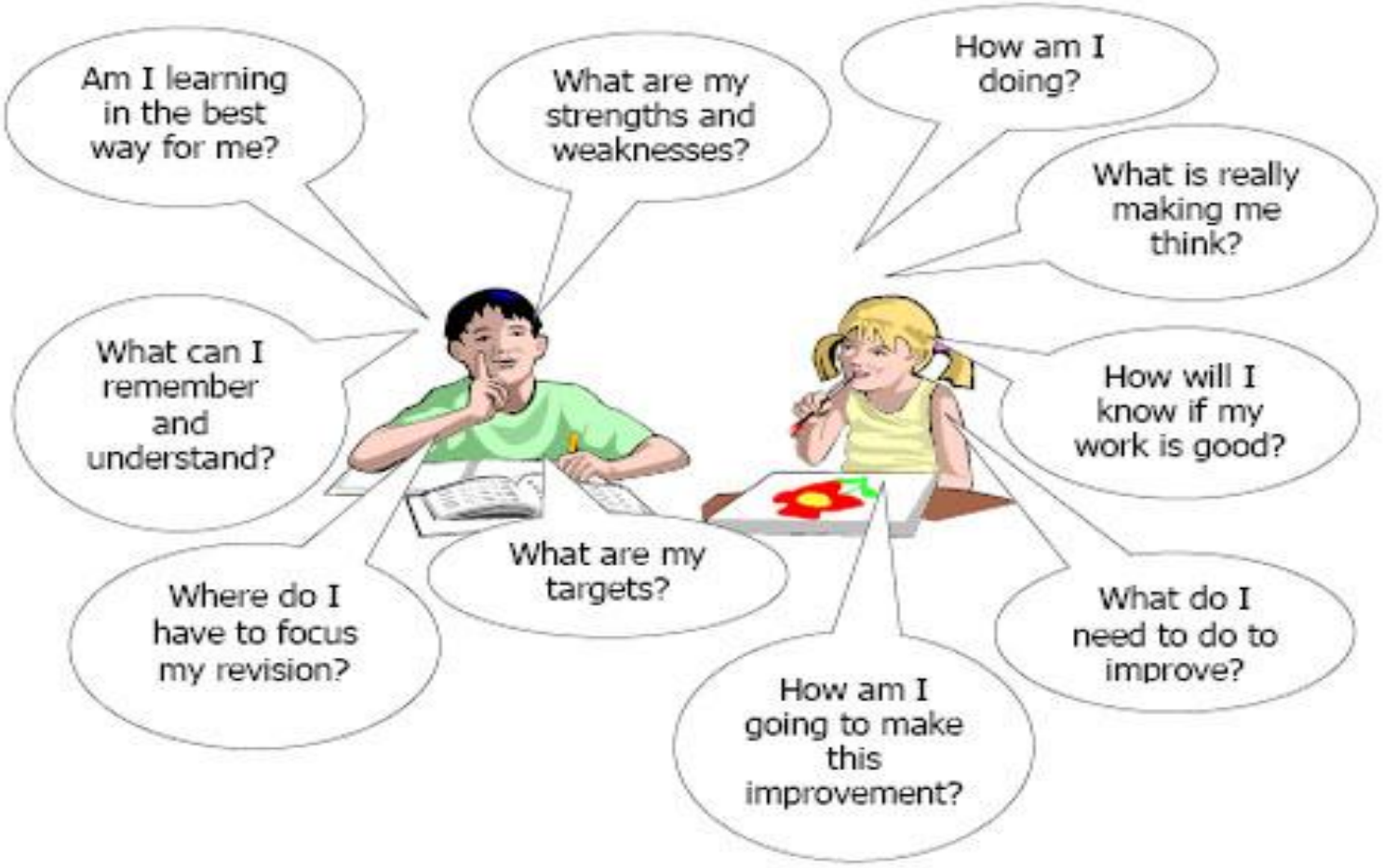
# Revision guides




- Available 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 Miss Smith or Mrs Abslom in the Hall

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| Subject | Room |
| --- | --- |
| Art | AR2 |
| Business Studies | BS2 |
| Computing | IT2 |
| Drama | Drama Studio |
| Food Preparation and Nutrition | TE4 |
| French | LA2 |
| Geography | HU2 |
| History | HU3 |
| ICT | IT2 |
| Music | MU1 |
| Papers and Boards | TE6 |
| Physical Education | PE1 |
| Photography | AR2 |
| Religious Education | HU5 |
| Spanish | LA2 |
| Timbers | TE2 |