

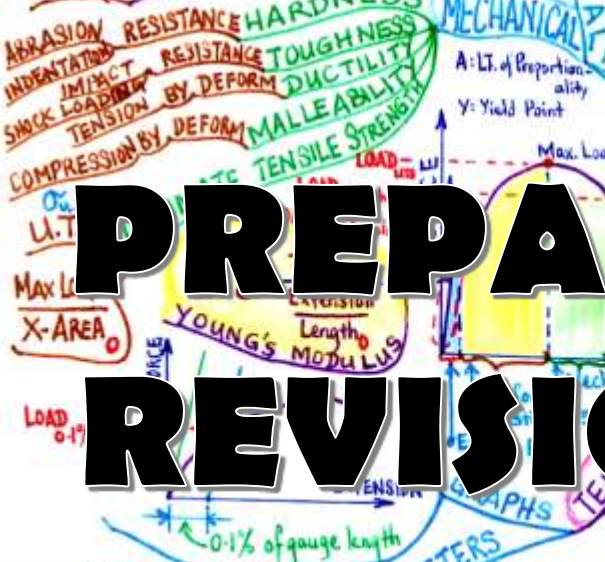
PREPARE TO PERFORM REVISION TECHNIQUES

PHYSICAL PROPERTIES
 DENSITY
 SPECIFIC GRAVITY
 EXPANSION THERMAL
 CONDUCTIVITY
 (HDT) HEAT DISTORTION TEMPERATURE
 WATER ABSORPTION
 RESISTIVITY ELECTRICAL
 MELTING POINT
 GRAVIMETRIC
 $\rho = \frac{AR}{L}$
 $\rho = \frac{1}{\sigma}$

BALL SIZES (D=1.5, or 10mm)

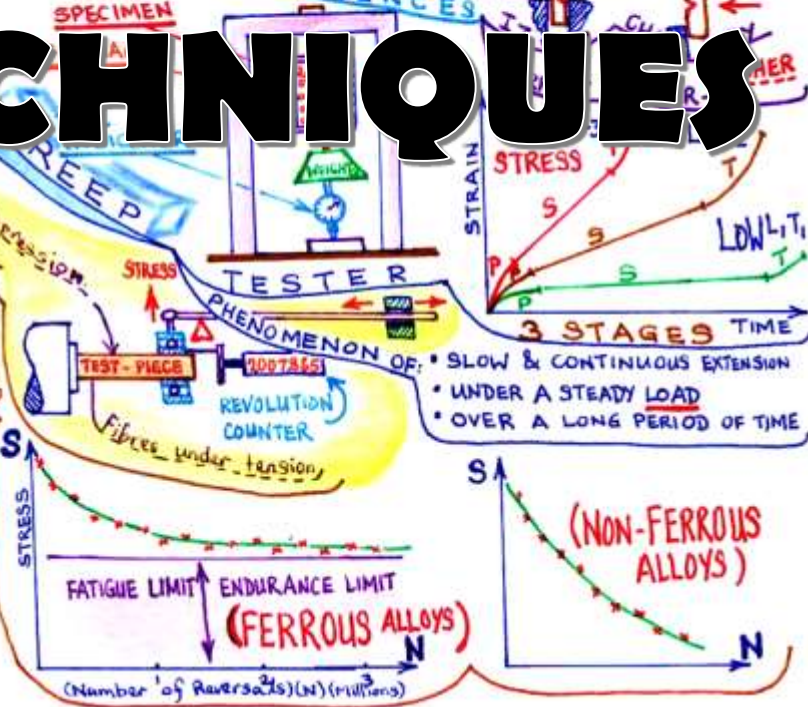
Materials	P/D ²
Steel	30
Copper alloys	10
Aluminium	5
Lead & Tin alloys	1

TEST LOADS
 Load (P)
 $H = \frac{\text{Area of curved surface}}{2} = \frac{P}{2(h)} (D - \sqrt{D^2 - d^2})^2$



PARAMETERS

- $\sigma_{UTS} = \frac{\text{LOAD}_{UTS}}{\text{X-Section Area}}$
- $\sigma_{\text{yield point}} = \frac{\text{LOAD}_{\text{yield point}}}{\text{X-Section Area}}$
- $\sigma_{\text{actual}} = \frac{\text{LOAD}_{\text{fracture}}}{\text{X-Section Area}}$
- $\% \text{ elongation} = \left(\frac{\text{LENGTH}_f - \text{LENGTH}_i}{\text{LENGTH}_i} \right) \times 100\%$
- $\% \text{ Area reduction} = \left(\frac{\text{AREA}_i - \text{AREA}_f}{\text{AREA}_i} \right) \times 100\%$
- $\sigma_{0.1\% \text{ proof}} = \frac{\text{LOAD}_{0.1\% \text{ proof}}}{\text{X-Section Area}}$



FACTORS
 BAD DESIGN
 PRESENCE OF HIGH FREQ VIBRATION
 SURFACE FINISH
 CORROSION
 STRESS CONCENTRATION

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 SINGAPORE, 19 JUNE 2015

1. CREATE A REVISION TIMETABLE

GCSE Revision Timetable

Don't forget to take regular breaks!



Day \ Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
9am							
10am							
11am							
12noon							
1pm							
2pm							
3pm							
4pm							
5pm							
6pm							

If your child watches a series / has a football match / event on – Ensure this is placed on the calendar.

Breaks and relaxation time is crucial when sticking to a tight schedule.

Allow for sufficient breaks – 30 minutes.

2. STUDY IN A QUIET ROOM



Make sure your child has a suitable place to study and remove any distractions; mobile phones, playstations, the xbox etc ...

Reward them with these when they have completed 45mins / hour revision session.

3. CREATE SUMMARY NOTES



Reading work over and over again helps students to memorise facts. However, **READING** is NOT enough.

Encourage your child to make **NOTES** - condense what they have read.

Put the notes up in a visible place.

Ensure they are bright and colourful.



4. SUPPORT YOUR CHILD WITH THEIR REVIS



Test your child.

Ask them to summarise what they have revised.

Test them on key information; dates, vocabulary, quotes etc...

OR

Encourage your child to revise with a friend.

PRAISE & SUPPORT

5. IN-SCHOOL REVISION CLASSES

Maths

From January

Mr. McIlwain	Year 11	Monday/Tuesday	After school
Ms. Campbell	Year 12	Tuesday/Wednesday	After school

SCIENCE

Physics - Monday after school in SS1
 Chemistry - Tuesday after school in SS2
 Biology - Wednesday after school in SS3

After January there will be topic based sessions

French

	08:00-09:30	1:15-2:45	2:50-3:50
MON	Speaking Session Role Play / Asking Questions / Worksheets	Speaking Session Role Play / Asking Questions / Worksheets	
TUES			Listening / Reading / Grammar / Vocabulary building
FRI	writing revision Translating / Q2 & Q3	writing revision Translating / Q2 & Q3	

MONDAY - Exam Preparation - After school SS4

COMPUTER SCIENCE

09/12/2019	Introduction of technology
15/12/2019	Algorithms
22/12/2019	Programming constructs
29/12/2019	Types of languages
05/01/2020	Object oriented language
12/01/2020	Scripting languages
19/01/2020	Features of programming languages
26/01/2020	Logical operations
02/02/2020	Embedded systems
09/02/2020	Storage
16/02/2020	Data representation
23/02/2020	TBC
01/03/2020	TBC
08/03/2020	TBC

Thursday Lunchtime Discussions

WELSH

Every lunchtime. After school Monday Wednesday

GCSE

01/12/2019	Quality of data
08/12/2019	ICT written learning
15/12/2019	Application software
22/12/2019	Use and features of email
29/12/2019	Security
05/01/2020	Unit 1 Coursework completion
12/01/2020	Unit 1 Coursework completion
19/01/2020	Unit 1 Coursework completion
26/01/2020	Unit 1 Coursework completion
02/02/2020	Unit 2 Coursework completion
09/02/2020	Unit 2 Coursework completion

PE

Every Tuesday and Wednesday After School Catch Up Sessions

Art, Fashion & Photography

Catch up sessions held on Monday and Wednesday after school and every two weeks.

MDSC

Coursework to government classes on Tuesday nights from February half term to Easter. Post Easter there will be revision sessions for the exam on Tuesday nights.

Entrepreneurship and Business Ownership

Tue 20 th November	Entrepreneurship and Business Ownership
Wed 20 th November	Business aims and Stakeholders
Tue 4 th December	Location
Wed 12 th December	Market Research
Tue 19 th January	Marketing Strategy
Wed 16 th January	Organisational structures and recruitment
Tue 22 nd January	Training and motivation
Wed 30 th January	Production and quality
Tue 5 th February	Supply Chain
Wed 13 th February	Services of Finance
Tue 19 th February	Cash Flow
Wed 6 th March	Profit and loss and balance sheets
Tue 12 th March	Break even
Wed 20 th March	Ratios
Tue 26 th March	Ethics
Wed 3 rd April	Economic and political factors
Tue 9 th April	Environment and technology

Coursework Catch-up 7:50-3:50pm

Monday 10 th November	Group 1	Check group with Miss Hill
Wednesday 20 th November	Group 2	
Wednesday 27 th November	Group 3	
Monday 3 rd December	Group 4	
Monday 10 th December	Group 5	
Wednesday 17 th December	Group 6	

Encourage your child to attend revision sessions in school.

Teachers know your child's strengths and weaknesses. They know what your child needs to do to improve.

Motivate them to attend and receive the support provided.

6. BREAKS AND REFRESHMENTS



Keep your child's brain and body healthy.

Provide your son/daughter with water to stay hydrated and healthy snacks!

Take 10-15 minute breaks. Go for a walk, check phone, get a drink.

7. 8 HOURS OF SLEEP EVERY

HT

8 HOURS
of **SLEEP**
EACH DAY
=
PROGRESS.
GET YOUR SLEEP!

Young people need to have around 8 hours sleep to rest during this busy time.

Do not stay awake at night cramming revision.

Switch off distractions half an hour before sleep. It will take longer to fall asleep if their brain is overworking / overthinking.

8. USE REVISION APPS /

GCSE Pod

Corbett Maths

PiXL

WJEC – Create a Paper

Bitesize

Revision Apps and websites can aid revision.

There are lots of sources available for your child.

Go to T01 for further support with these!

9. COMPLETE PAST PAPER

The screenshot shows the WJEC Question Bank website. At the top left is the WJEC CBAC logo. The navigation menu includes EXAM OFFICERS, QUALIFICATIONS, TEACHERS, APPOINTEES, STUDENTS, and ABOUT US. A sidebar on the left contains a 'Find Qualification' dropdown menu, a 'Home' button, a 'Question Bank' button (highlighted in blue), 'Frequently Asked Questions', and a 'SUBSCRIBE FOR UPDATES' button. The main content area is titled 'Question Bank' and includes a description: 'Question Bank is a free tool which allows you to create practice question papers from thousands of WJEC past paper questions. Find the questions you need, add them to your paper and export your paper with accompanying mark scheme and examiner's comments as a PDF ready to use in the classroom.' Below this is a video player for a 'Question Bank Tutorial' showing a math problem. To the right of the video is a 'Useful Links' section with three items: 'Download our free How-to Guide', 'Visit FAQ page', and '5 Reasons to use Question Bank'.

Questions are very similar year after year.

Use the WJEC Create a Paper website for practice papers.

Ensure your child receives past papers from their teachers.

Understand HOW to answer the paper – Build Confidence

10. REVISE IN A VARIETY OF

WAYS



Keep it fresh and exciting.
Revision can be boring.

Use different methods;
Mind Maps, Apps, Past
Papers, Reading,
Condensing, Rhymes,
Songs, Notes.