

LYMM high school

'How to help your child revise'

Parent Information and Guidance

2023-2024

At Lymm High School, we recognise the importance of working in partnership with students and parents to secure the best possible outcomes for our students. The next few months represent a crucial stage of your child's education. GCSE exams are imminent, and it is imperative that all parties work together to maximise attainment.

The following booklet has been designed to guide and support you in working with your child in preparation for the mock exams. The mock exams will begin on **Monday 4th December** and run up until the end of term, including a catch-up period should students miss any sessions due to illness. Please see our school website for details.

This booklet outlines some useful revision strategies, together with an explanation of the science behind how our memory retrieval works.

There are a range of useful websites and online revision resources, alongside a revision timetable template to support you in guiding your child to manage their time effectively when it comes to revision.

We will be providing all Year 11 students with a 'student friendly' version of this booklet to support them throughout their preparation and ask that it is brought to school to help them get the most out of their independent study skills sessions in form time. Students will also be receiving support and guidance around their mental health and well-being during the mock period as we recognise that this can be a time of worry for them.

SUPPORTING YOUR CHILD'S REVISION

1.GETTING THEM IN THE RIGHT FRAME OF MIND

The prospect of GCSE exams is very stressful for students. This tends to spark a natural 'fight, flight or freeze' response. When presented with the prospect of revision for exams, students may respond with...

FIGHT Students may become argumentative or aggressive.

FLIGHT Students may try to put off revision or run away from the problem.

FREEZE Students may panic & be unable to think straight or concentrate.

If any of these instincts are triggered it becomes very difficult for the students to revise.

To counteract this, try the following:

Be unerringly positive: repeatedly focussing on the positive, emphasising belief that the student will be successful. Do not join in the anxiety – even if you feel it! Try to remain calm and positive.

2. PLANNING REVISION

Tonight, you will be receiving advice on how to break down revision running up to the exams.

It is crucial that students start early and draw up a revision plan and timetable to make sure they cover all topics in plenty of time, avoiding any last-minute panic.

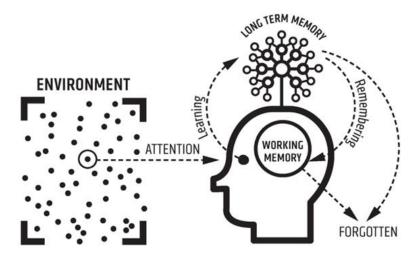
Example revision timetables and blank templates are available for download from the school website.



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MEMORY – THE SCIENCE OF LEARNING

In recent years, there has been lots of research around the science of learning and how we learn and retain information.



1. We have a certain amount of attention to pay and this can be limited/vary depending on the individual or the environment. In the diagram above, **'attention'** means we acknowledge new information and this is then transferred into our working memory.

2. Our **working memory** is where you do your thinking and where you take in new information. We can only absorb a limited amount of information at a given time otherwise it gets crowded. *As an example, if you write down a 'long number' and try and remember it every 30 seconds, you will be surprised how difficult this is to do!*

3. Information is processed into our **long-term memory** through '**learning**'. This long -term memory is effectively unlimited, and we can retrieve information from here back into our working memory as needed in a given moment. When we remember something, it comes from here. *As an example, this might be your phone number or address. We don't walk around thinking about those two things every second of the day but it is in our long-term memory ready to be used and retrieved when needed.* However, if we don't use the information it fades (is forgotten). **Learning is therefore a change in your long-term memory.** Therefore, revision activities must require you to think hard.

4. Information in our **long-term memory** is interconnected and linked with prior knowledge. Anything that is not connected or not successfully stored well enough in our long-term memory is forgotten.

5. If students undertake enough **retrieval practice**, generating the information in their long-term memory, it increases a level of fluency within the subject. Practice makes perfect!

Forgetting is completely natural. Research has shown that over time you forget a majority of what you've learnt, and it happens immediately. The following diagram outlines this process and is called the **Ebbinghaus Forgetting Curve** (1885).



Typical Forgetting Curve for Newly Learned Information

Ebbinghaus proposed that humans start losing 'memory of knowledge' over time unless the knowledge is consciously reviewed time and time again. He conducted a series of tests on himself which included the memorisation of a meaningless set of words. He tested himself consistently across a period of time to see if he could retain the information. He found that:

- Memory retention is 100% at the time of learning any particular piece of information (in the moment). However, this drops to 60% after three days.
- A range of factors affect the rate of forgetting including motivation, the meaningful nature of the information, the strategies for revision and also psychological factors (sleep for example).
- If each day, repetition of learning occurs and students take time to repeat information, then the effects of forgetting are decreased. According to research, information should be repeated within the first 24 hours of learning to reduce the rate of memory loss. This is why homework consolidation is really important when linked to the revision of new information!

Practice and retrieval help to break this 'forgetting curve' as it strengthens the long-term memory and stops information from fading.

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In summary, what do we know about memory?

- Consistent practice and revisiting previous material strengthen memory and boosts learning.
- Our working memory is finite and limited and so overloading this or cramming for revision doesn't work.
- Information, if not revisited, is 'lost' from our memory.

THE KEY PRINCIPLES OF EFFECTIVE REVISION



All students are individuals, and many often find their own preferred style of revision. However, as you will have picked up from the science behind memory retrieval, just reading through notes has been shown to be highly ineffective. Students need to process and interact with the information in order to maximise retention. A quick internet search reveals that there are many methods. On the following pages are details of just a few, along with an explanation on why they are effective.

RETRIEVAL PRACTICE – FLASHCARDS

Simply put, recalling information from memory is simple and powerful. Retrieval practice is a learning strategy which makes you think hard and brings information to mind. It is the action of actively retrieving knowledge that boosts learning and strengthens memory. <u>It means trying to remember previously learned information as opposed to</u> <u>simply re-reading it</u>. It builds confidence over time and allows you to identify gaps in your knowledge. Examples include:

- Knowledge quizzing, low stakes testing and multiple-choice tests like Tassomai!
- Completing past paper questions or practice answers.
- Answering verbal questions asked by teacher/peers/parents.
- Summarising, creating flashcards or revision materials where you can 'test' yourself.

One particularly effective strategy is the creation and use of **flashcards**. Flashcards are generally a card containing a small amount of information on either side as an aid to learning. The use of flashcards is for low stakes testing to improve recall and to strengthen memory.

ATTRITION

The action of rock fragments colliding into each other causing them to become smaller and rounder over time.

An effective flashcard may include the following (*in each subject they will be used in a different way*):

- A key term/key word with definition on the back.
- A key date with the event on the back.
- A key equation with its use in practice on the back.
- A past paper question/plan and a model answer on the back.

Gather information to create the flashcard. Use your books, textbooks and revision guides.

information to put on your flash cards. Write/draw the information on one side and write the answer on the other side. In order to use flashcards most effectively, the Leitner System is a desired strategy for spaced testing. Once you have created a set of flashcards, create three boxes/ areas marked as the following.

BOX 1:	BOX 2:	BOX 3:		
Every day	Twice a week	Once a week		

- Test yourself on the flashcards in the Box 1 pile. If you get the answer correct on the flashcard, move it to the Box 2 pile. If you get it incorrect, it stays in Box 1.
- Twice a week, test yourself on the flashcards in Box 2. If you get the answer correct on the flashcard, move it to the Box 3 pile. If you get it incorrect, it stays in Box 2. The aim is to get all of the flashcards to Box 3.

 Put a single piece of information on each flashcard. Sort your flashcards according to your confidence with them (see above). Create 'decks' for each topic. This may be a different colour card for each subject/unit. Mix up topics so you aren't always testing yourself on the same topic. Put a single piece of information on each flashcard. Spend more time mak cards than using them Put lots of information flashcard. Revise the flashcards is order every time that Only read the flashcar memory! Assume everything yo correct. 	<i>Retrieval</i> and Flashcards 'Don't':		
 Practice the information you struggle and need to improve on. Use PLCs, checklists or revision guides as a way to monitor your retrieval practice. Move beyond recalling simple facts to detail and analysis. Correct: Throw away your quiz dumps. Avoid testing yourself ics or ones you dislike to be difficult. 	n onto each n the same you use them. ds – test your u've written is zes or brain on tough top-		

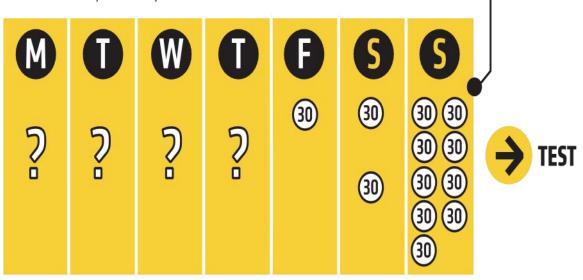


This video will help support you in using the Leitner system: <u>https://</u><u>www.youtube.com/watch?v=C20EvKtdJwQ</u>

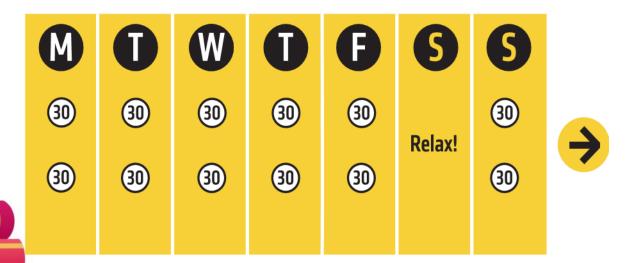
SPACING AND INTERLEAVING – PLANNING YOUR REVISION

Spacing out your revision into smaller chunks over a period of time helps you to remember the material better and ensures you are less stressed with your revision. This ensures you are not cramming as it will overload your memory and make you overconfident. By leaving time between revising and testing, the harder your brain works, the more chance of remembering.

Let's say you have a test one week and you have 5 hours to prepare for it broken down into 30 minute chunks. Very often that process looks like this.



Instead of mass practice, a much more effective way of revising is to space out your revision like this:



By breaking up your revision into 30 minute chunks and spacing out the time between revision, you will consolidate what you have learned and retain the material much more effectively.

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Interleaving involves switching between ideas and topics during a study session and not revising in blocks of topics. This ensures that you are not studying one idea or topic for too long. Mixing up your revision and chunking it supports learning and strengthens your memory as we know you need to review information over time to reinforce learning.



If a subject involves a narrative (story), revise this in one piece.

AN **JEKYLL** UNSEEN CREATIVE MACBETH INSPECTOR AND POETRY WRITING CALLS HYDE AN JEKYLL CREATIVE UNSEEN **INSPECTOR** MACBETH AND WRITING POETRY CALLS HYDE AN JEKYLL CREATIVE UNSEEN MACBETH INSPECTOR AND WRITING POETRY CALLS HYDE

For example, instead of organising your revision week like this:

A much more effective way of organising your revision would be like this:

M	Ū	W	Ū	G
MACBETH	UNSEEN POETRY	AN INSPECTOR CALLS	JEKYLL AND Hyde	CREATIVE WRITING
AN INSPECTOR CALLS	JEKYLL AND Hyde	CREATIVE WRITING	MACBETH	UNSEEN POETRY
CREATIVE WRITING	MACBETH	UNSEEN POETRY	AN INSPECTOR CALLS	JEKYLL AND Hyde

As you are doing this, another highly effective strategy is to try to think of connections between topics you are studying considering similarities and differences.

Studying one topic for a long time can give them impression you have mastered it but often this can be misleading.

DELIBERATE PRACTICE

Practice is essential. You can revise all you like but without practice, it is wasted. Start by spending time reviewing a topic/unit before quizzing/testing yourself with no notes and from your memory (this is vital for revision). Once you have finished, check your answers. This will support you in showing where your 'knowledge gaps' are and where focus needs to be in your future revision. Revision shouldn't keep you in your comfort zone, you need to be thinking hard and identifying your own areas for development. Avoid simply revising topics you enjoy. A technique to support deliberate practice is the Pomodoro Technique.



Practice should be applying the knowledge and skills you need to succeed so may involve exam questions or planning answers.

Deliberate Practice 'Do':	Deliberate Practice 'Don't':		
 Spend time practising what you will be tested on. Practice the areas you struggle and need to improve on. Make sure you review your practice – get a teacher to check it or review your notes and answers against mark schemes. 	 Use notes, the point is you are doing it from memory! Only practice areas you find easy or do well at. Spend too long on a question – stick to timing and practicing what it will look like in exam conditions. 		

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SUMMARISING AND CHUNKING INFORMATION

Chunking information into manageable chunks to revise is a powerful strategy as it aids motivation and ensures your working memory is not overwhelmed.

- Breaking up the information into paragraph or section chunks this ensures you can work through, revise and learn, one part of the text at a time. Give each section a heading to support your understanding.
- Only highlight the core information, not everything what is actually needed?
- Take out the information you have highlighted and bullet point it onto a revision card – use this knowledge to explain the 'story' and to test yourself.

Muhammad Ali, arguably the greatest boxer in the history of the sport. He was born in 1942, in Louisville, Kentucky in the United States. He was named after his father, Cassius Clay, Sr., who was named for the 19th century abolitionist and politician Cassius Clay. He changed it to Muhammad Ali in 1964. He became a boxer at the age of 12. As an amateur boxer he won many titles, culminating in the Light Heavyweight gold medal in the 1960 Olympics in Rome, Italy. When Ali returned home to the states, he was so proud that he wore the medal around his neck wherever he went. After a week, he went to a café and ordered a drink. The waiter said "I'm sorry, we don't serve coloured people". Ali was so incensed by this! He had represented his country, won the gold medal, and come back to this kind of treatment. Muhammad Ali ripped from his neck and threw it into a river. Ali turned professional at the age of 18. Ali's record was 100 wins, 5 losses when he ended his amateur career. Ali became the World Champ at the age of 22. Clay was famed for his unorthodox fighting style. Rather than match his opponents with brute force, Clay brought tactics and strategy into the ring. With his fast-moving style, he was equally adept at dodging a punch as at delivering one. His fancy footwork soon became known as the 'Ali shuffle'. Ali also fought a great psychological game, often beating fighters before they stepped foot in the ring. It was in the pre-fight build up to his first world title fight with Sonny Liston that Ali famously said "I will float like a butterfly and sting like a bee". In 1967, when Ali refused on religious grounds to be drafted into the US army to fight in Vietnam, he was stripped of his title and banned from boxing, two decisions he successfully overturned in court. This he achieved by defending himself brilliantly without a lawyer. In 1971, Ali lost the title to Joe Frazier, Ali went on to win it back and then fought in two of the most famous fights in the history of boxing; The Rumble in the Jungle, versus George Forman and The Thrilla in Manilla, again versus Joe Frazier. Ali is the only boxer to have held the World title on 3 separate occasions. Ali retired from professional boxing in 1981, at the age of 39, with a career record of 56 wins and 5 losses, and as a three-time World Heavyweight Boxing Champion. Throughout his boxing career Ali was won over 50 million \$. Muhammad Ali became a Muslim around the age of 22, and a member of a group known as the Nation of Islam (or the Black Muslims) and was inspired by the teachings of Malcolm X.

Paragraph 1: 'Born':

Muhammad Ali, arguably the greatest boxer in the history of the sport. He was born in **1942**, in **Louisville, Kentucky** in the United States. He was named after his father, **Cassius Clay, Sr**., who was named for the 19th century abolitionist and politician Cassius Clay. He changed it to Muhammad Ali in 1964. **He became a boxer at the age of 12**.

Born:	Boxing:
 I942 Kentucky Cassius Clay I964 I2 	 1960 Rome Olympics Professional at 18 100 wins, 5 losses at amateur
World Champion: 22 'Float like a butterfly, sting like a bee' Vietnam 1967 3 times World Champion \$50 million	Life: National of Islam Married 4 times 9 children BBC Sportsman of the Century 1999

DUAL CODING

When reviewing something you have learnt, combining words and pictures can be powerful. Research suggests that combining words and images increase your learning by visually representing information in two different ways.

Examples of this include creating:



Timelines These can show the events that happen in a sequence, and the links between these events.



Flow Diagrams Use flow diagrams to highlight cause and effect, input/output and processes



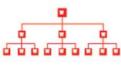
Mind Maps These allow you to group information in branches from a central theme



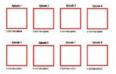
Venn Diagrams Useful to compare change/continuity in history or characters in English



Diagrams Diagrams to annotate key information e.g. biological features about the body.



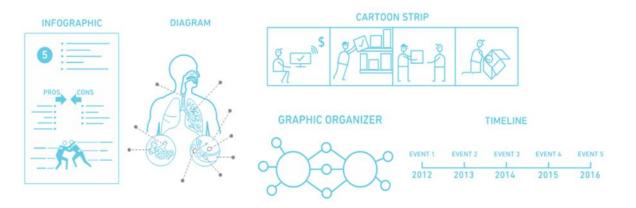
Graphic Organiser These can chunk any aspect of a topic; hierarchy, process, cause/effect etc.



Story Boards These can help you remember the key parts in a story or event



Concept Maps Use to highlights links between themes, concepts and ideas.



INEFFECTIVE REVISION STRATEGIES – WHAT DOESN'T WORK

With the above in mind, it is vitally important to think about strategies that students may employ that have a limited or no real benefit on learning or memory. These include:

- Simply writing out notes or copying from a textbook/exercise book.
- Cramming revision to the 'final minute' overloads your working memory so you can't learn at all. It can also cause stress/anxiety before exams.

- Re-reading and doing nothing with the information. Trying to focus on 'too much information' on a single page and cramming revision.
- Highlighting information for the sake of it.
- Not enough silent work or attention to a given task. Attempting to revise while multitasking and doing other things.
- Comfort zone revision of easy material that pupils have already mastered because it makes you 'feel good'.

DEVELOPING REVISION ROUTINES AND HABITS

It is vitally important to establish a strong routine. Having goals are good for setting a direction. What do you want to achieve in *this* revision session? Habits are incredibly powerful in helping you to succeed. If you have the mindset of wanting to be a better student and build the habits to become the person you want, the results will come. Getting one percent better every day counts for a lot in the long-run.

In order to support the forming of good revision habits, there are a number of areas to consider:

- Make it obvious revise in one area, leave your materials out ready to support organisation and ensure routines are stuck to. Ensure your environment is clear, uncluttered and comfortable.
- Start small and build up reduce distractions where and when you revise and get your family to encourage the creation of a revision timetable and placing it somewhere visual in your house. Ensure someone else is knowledgeable of this timetable to enable accountability and aid support. Start revising for a short amount of time and build up over time.
- Make it attractive collaborative focused revision (with friends) is beneficial (alongside attending interventions or revision sessions) but you could also ensure there is a 'reward' at the end of a revision session. *If I complete this, I can do this.* Write a revision contract.
- Make it satisfying and rewarding challenge yourself, track your own revision progress and ensure you stick to your revision timetable. Small steps build success and motivation. Use PLCs or checklists to support. Focus on 'I'm a hard worker' than 'I want a Grade 8'.

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CREATING AN EFFECTIVE REVISION ENVIRONMENT

Goals are good for setting a direction but systems are best for making progress. We know that working memory can only hold a small amount of information at once. Therefore, in order to revise and learn effectively, you should use techniques which free up your working memory and stop it from being overwhelmed. One way is working in an environment which is free from distractions.

Whilst phones are a brilliant intervention, research has found that they have a negative impact on revision and learning. It can reduce concentration, impacting working memory, impact your sleep due to the bright lights and distractions, reduce your motivation to reduce and through listening to music, you are more likely to remember the lyrics to the song than the material you are revising.

Find a quiet, tidy room with minimal distractions – your bedroom, library or classroom.

Put your revision timetable, exam timetable and other documents visible on your wall

Make sure you have a drink and snack with you, staying hydrated and full is important





Put your phone in another room, it is too much of a distraction -

Loud music is a distraction, if you must listen, it needs to be low tempo, without lyrics

Have all your revision materials and stationary on your desk ready to go - make it obvious

CREATING A REVISION TIMETABLE

- 1. Collate all your topics and determine where you need to focus your time. Which subjects and topics do you need to target?
- 2. Create a table for a week with 30–45-minute revision slots and breaks built in.
- 3. Write the subjects in the table, leaving yourself at least two days between each.
- 4. Type it up so you re-use it and edit it. Ensure it is easy to check and find.
- 5. Put it somewhere visible and tick off completed sessions = see the success! Ensure someone at home also has ownership of it. It will support motivation.

For an example revision timetable, see below. *This involves only English, Maths, Science and R.S to show how a timetable may look but please ensure all subjects are included depending on the focus at a given moment.*

Subjects	English	Maths	Science	R.S.			
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
30 mins	Reactions	Biblical expe- riences	Buddhism	Features of theatre texts	Atoms, elec- trons and protons	Experiences of an author	Properties
30 mins	The late romance plays	Expansion	Features of compounds	Partial frac- tions	Buddhism	Partial frac- tions	Features of theatre texts
30 mins	Equations	Act One character and plot	Algorithms	Properties	Features of compounds	Theme of Power and Control	Experiences of an author
30 mins	Properties	Buddhism	Theme of Power and Control	Act One character and plot	Algorithms	Equations	Expansion

USEFUL REVISION RESOURCES

Many departments will recommend a particular revision guide and/or workbook. If purchasing other revision guides, please be careful to make sure that they match the exam board and specification your child will be sitting. Our school website contains links to school recommended revision guides under 'Academic' and 'Revision'.

There are also many online revision resources available. The school subscribes to Tassomai . However, there are many more online revision websites, with various interactive activities plus practice exam questions, available.



Other recommended sites:

A free app and website which enables students to create on line revision timetables



BBC Bitesize BBC Bitesize An excellent all round revision, including guizzes and videos



Memrise Good for memorising key facts through repetitive questioning



hegartu

Hegarty maths The number one site for maths revision

FINAL TIPS

WHAT CAN PARENTS/CARERS DO TO HELP?

- Help your child to get in the right frame of mind
- Be ready for stress stay calm and help them deal with it Help your child plan revision
- Agree a reasonable revision programme and help them stick to it Provide a quiet calm environment for them to revise in Provide plenty of food and drink, treats and rewards
- Provide resources revision guides / stationery / past exam papers and mark schemes
- Be overwhelmingly positive

WHAT CAN STUDENTS DO TO HELP THEMSELVES?

- Maximise your attendance If in doubt over illness get to school. Be punctual -Late arrivals miss key lesson starters
- Attend as many revision sessions as possible Exam tips from teachers can make all the difference
- Revise at home Make a reasonable revision programme and stick to it Take responsibility for your own success

Further subject specific guidance will be shared with students via their classroom teachers in the run up to the mock exams. If students have any specific queries, please encourage them to get in touch with their teachers in the first instance.



SEEKING SUPPORT: MENTAL HEALTH SUPPORT SERVICES

Happy? OK? Sad?



Warrington emotional wellbeing signposting website with advice, guidance and links to support for young people and adults both locally and nationally. http://happyoksad.org.uk

CAMHS



Warrington CAMHS website offers advice and signposting if young people are struggling to cope with their feelings or you are concerned about risk

https://www.nwbh.nhs.uk/camhswarrington

To help explain what CAMHS support is, see the helpful guides for Young People from Mind and YoungMinds below:

- <u>https://www.mind.org.uk/</u> <u>information-support/for-</u> <u>children-and-young-people/</u> <u>understanding-camhs/</u>
- <u>https://youngminds.org.uk/</u> <u>find-help/your-guide-to-</u> <u>support/guide-to-camhs/?</u> <u>gclid=EAIaIQobChMIypz55_LG</u> <u>6AIVhbHtCh3U3QJHEAAYASAA</u> <u>EgJAbfD_BwE</u>

Young Minds



Mental Health Advice and Signposting for Young People. https://youngminds.org.uk

Young Minds also have a crisis messenger service for young people to access 24/7:

 <u>https://youngminds.org.uk/</u> <u>find-help/get-urgent-help/</u> <u>youngminds-crisis-messenger/</u> <u>#youngminds-crisis-messenger</u>

Kooth.com



Free online counselling support, peer support and advice forums for young people.

https://www.kooth.com/

ChildLine



24 Hour advice and support line for Young People https://www.childline.org.uk/

NHS Mental Health Helplines:



Visit this website for a comprehensive list of helplines highlighted by the NHS for emotional wellbeing and physical wellbeing needs.

https://www.nhs.uk/conditions/ stress-anxiety-depression/mentalhealth-helplines/

Mind – UK Mental Health Charity



This website highlights support services in your local area alongside looking at specific mental health difficulties and tips to help. Below is a support section we have highlighted for Young People.

https://www.mind.org.uk/ information-support/for-children-and -young-people/

Child Bereavement UK



Support service for young people following the loss of a loved one. (See page 8) https:// www.childbereavementuk.org/

Students can also access support by using the 'Tell US' app. This is a confidential way to access help and speak to someone within the school environment about any worries or concerns.

https://www.lymmhigh.org.uk/tellus/



DON'T FORGET

To successfully complete the mock exams, we ask that students have the following equipment, and follow the JCQ examination guidelines as listed below:

- Black ballpoint pens (coloured pens optional)
- Pencils
- Ruler, rubber, sharpener
- Protractor and compass
- Scientific calculator
- Any pencil cases must be clear/transparent
- Any bottles of water must be in transparent bottles with labels removed.
- No watches of any kind to be worn into the exam venue.
- All phones/smart watches must be switched off and left in bags. They will be locked in the Sports Hall storage area safely.





Useful Contacts

Please contact your child's teacher or Head of Faculty for any subject specific queries.

All staff email address are available on the school website.

Miss Crowder (Head of Year 11)

hcrowder@lymmhigh.org.uk

Miss Lambert (Pastoral Manager Year 11)

clambert@lymmhigh.org.uk

Miss E Newton (Mental Health and Well-being Manager) enewton@lymmhigh.org.uk

Mrs McGahey (Associate Assistant Headteacher: Raising Achievement) cmcgahey@lymmhigh.org.uk

Miss Yates (SENDCo) kyates@lymmhigh.org.uk

