

Aims of this presentation

- To help students make the best possible start to Sixth Form studies
- To explain the ethos and expectations of Highdown Sixth Form Centre
- To help answer some key questions about Highdown Sixth Form Centre



Who are the key staff?

- Mr Prior
- Mr Flynn
- Ms Beale
- Dr Love
- Mrs Kaminska
- Mrs Sawdon-Smith
- Mrs Hamer
- The mentors
- A-Level teachers!

Head of Sixth Form

Head of Achievement

Assistant Head of Achievement

Professional Tutor

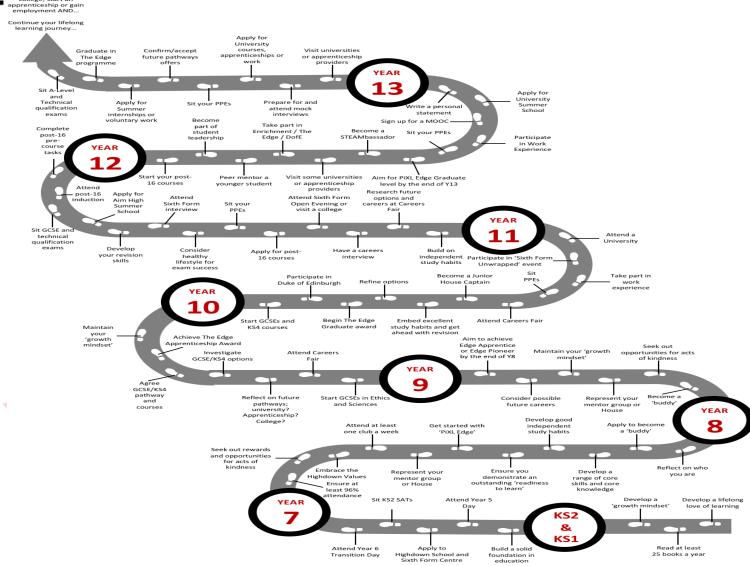
Learning Mentor - Sixth Form

Sixth Form Welfare Lead

Sixth Form Administrator



The HIGHDOWN JOURNEY

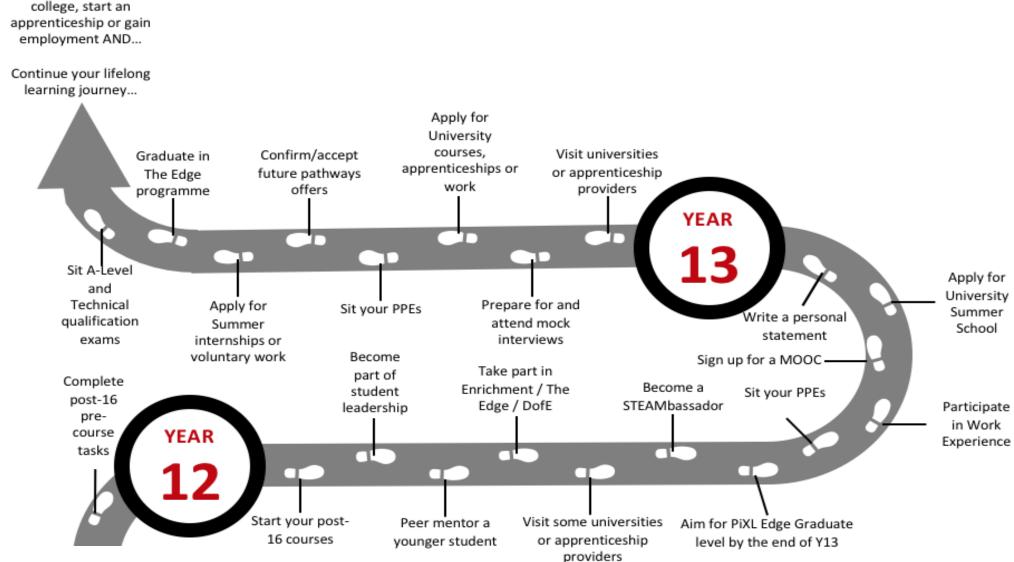






AND SIXTH FORM CENTRE

Go to University or college, start an apprenticeship or gain employment AND...



What myths do we need to 'bust'?

- I don't have any studying to do
- Nobody else wears an ID badge
- I don't have to go to mentor period
- I can work in Waitrose all weekend and do well in my exams
- No-one does any work after the PPEs in the summer, so I am off to Newquay with my mates



What does studying in the Sixth Form involve?

- 3 (sometimes 4) 'Level 3' subjects studied for two years
- Timetabled Independent Learning sessions
- A focused PSHCE programme, as well as a Mentor Period programme to support academic, social and personal progress
- Timetabled 'Enrichment' on a Wednesday morning
- Developing a wide range of **supercurricular** experiences to impress university admissions tutors and employers



How are A-Levels structured?

- A-Levels have been linear since 2015
- A student studying an A-Level subject has chosen to study it for two years
- Examinations in May/June of Year 13 (2025)
- Coursework still an important part of some courses
 - Art / Photography / Textiles / English / Geography / History / Music
- A-Levels are graded A*-E, not A*-C



How have BTECs changed?

- Assessment includes rigorous exams.
- Assignments no longer allow ongoing marking and improvement.
- During an assignment teachers are limited in the help they can offer.
- Once work is handed in (has to be by the deadline) limited feedback can be given before it can be resubmitted.
- If a unit is not passed the qualification cannot be passed.
- Each assignment has to meet the deadlines and must meet ALL criteria.



How is the Sixth Form experience structured?

- Start A-Level/BTEC Level 3 courses in September 2023
- A-Level linear PPEs April/May 2024 and December 2024
- BTEC exams in Year 12, and ongoing assessment
- University application Sept Nov 2024
- A-Level linear exams May/June 2025

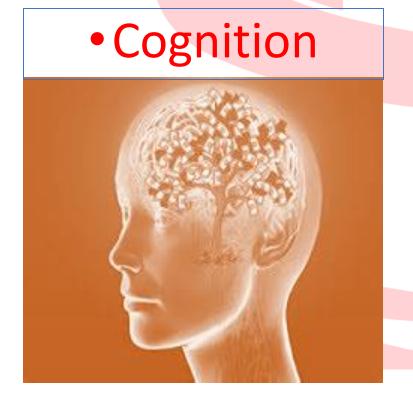


How can students excel in Sixth Form?

- Develop an 'Sixth Form Mindset'
- Embrace the supercurricular



Research has shown that 90% of reasons to explain why students struggle with Sixth Form Study are issues of character, not cognition









In other words...

 Gaining a brilliant set of GCSE grades does not necessarily mean students are going to breeze through A-Levels



The Five Elements of the Sixth Form Mindset

VESPA

- Vision: How well do you know what you want to achieve?
- Effort: How many hours of independent work do you do?
- Systems: How do you organise your learning and organise your time?
- Practice: What kind of work do you do to practice your skills?
- Attitude: How do you respond to setbacks?



If students find they performed well at GCSE, but are struggling by the first month of Sixth Form, could it be because they fit one of the following patterns?





· Characterised by listlessness · Characterised by level anxiety boredom, low-level anxiety, to exasperation, and a tendency to The low vision student procrastinate

HIGHDOWN SCHOOL and sixth form centre

The low effort student



The low attitude student



 Characterised by anger, frustration with progress, unhappiness, self-loathing, negativity – often comparing themselves unfavourably to others

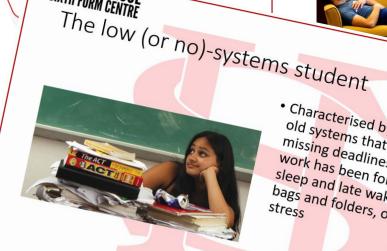




 Characterised by satisfaction, contentment and short-termism oblivious to levels of hard work put in by others.

HIGHDOWN SCHOOL AND SIXTH FORM CENTRE

The low practice student



 Characterised by a scaling-up of old systems that now can't cope, missing deadlines because the work has been forgotten, poor sleep and late waking, chaotic bags and folders, often high-



 Often organised and hardworking but loyal to repe<mark>ated patterns of GCSE</mark> preparation, comfortable behaviours, sense of control achieved through large stationery purchases, claims "You can't revise" for skills-

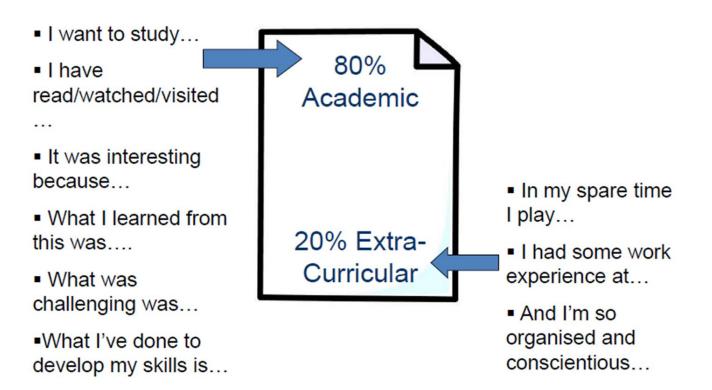
What is 'supercurricular' learning?

Structuring the Personal Statement

Super-curricular Activities

Activities that you do outside of school that are to do with your subject

- Summer schools
- Work experience (Medicine place more emphasis on work experience)
- Public lectures
- Voluntary work
- Competitions
- Enrichment activities in the local area publicly accessible opportunities
- Read newspapers, journals, books





Read magazines



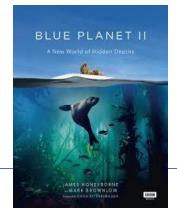




Listen to the radio / download podcasts / watch TED talks

Watch more TV (the right kind of TV!)







• Subscribe to a MOOC – Massive Open Online Course (many are free!)



Try a virtual museum visit



• Check out 'subject specific' societies (the chances are, most A-Level subjects have a 'society' that have free resources for Sixth Form students

Royal Geographical Society with IBG

• Follow academics on social media (or be old-fashioned, and write to them!)

Student Leaders



Things have changed...

Academic monitoring

....going back to what we know works

Study time

FWP

Behaviour

Doing the right thing **Attendance**

Dress Code

High expectations

Bursary

Academic Mentoring

Next steps

Other than A-Levels, what opportunities are there?

- EPQ
- Core Maths
- Mentoring scheme
- Boffit
- Leadership
- VWEX
- Enrichment



Study Skills in the Sixth Form





You remember the summer?

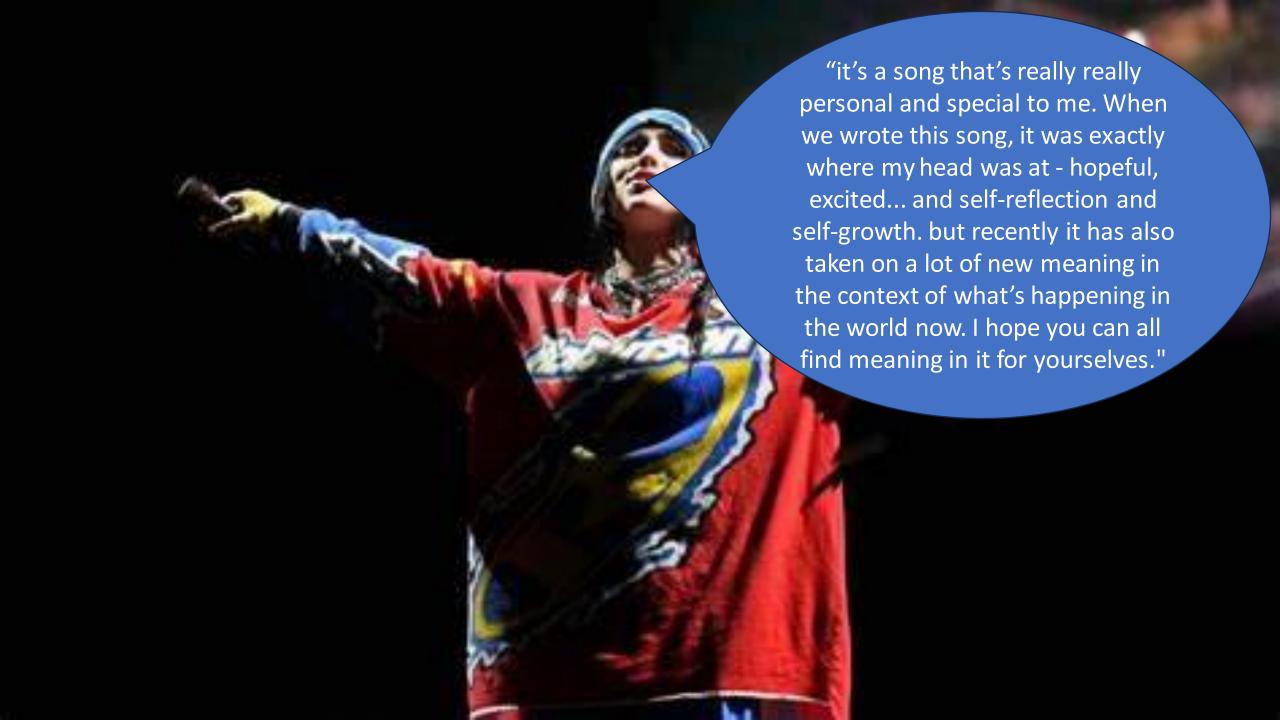


You remember the summer?



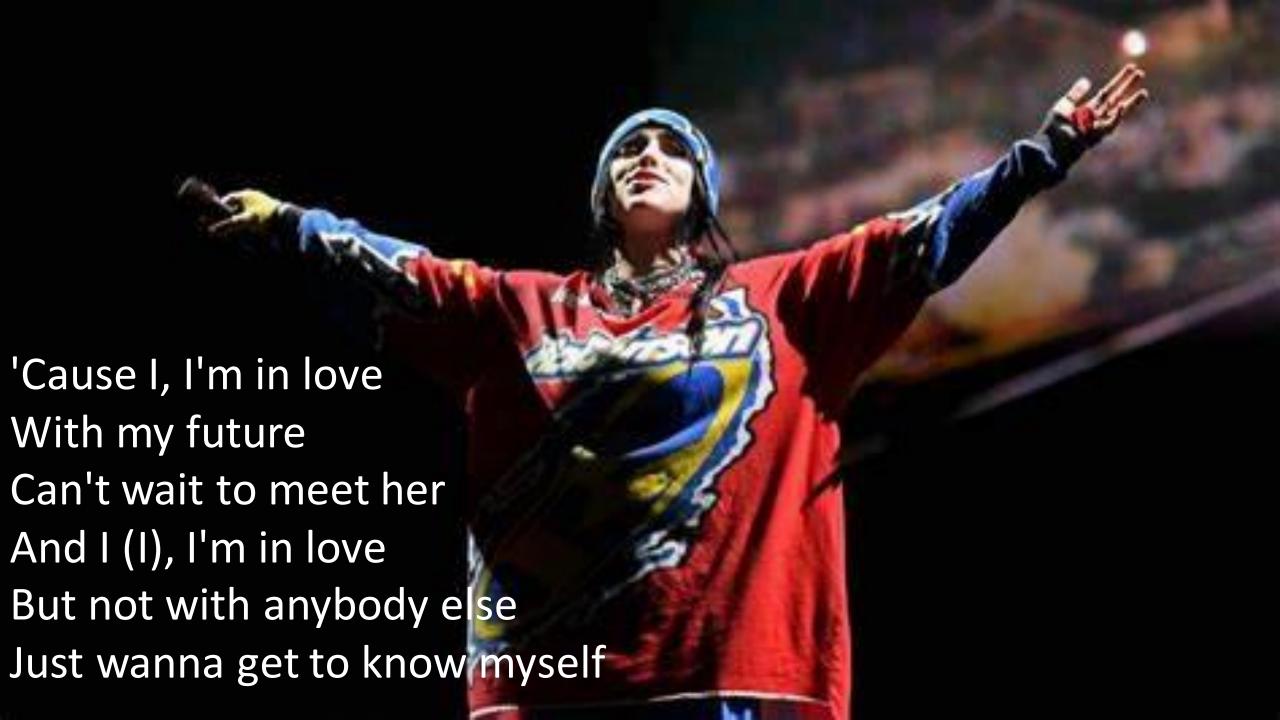


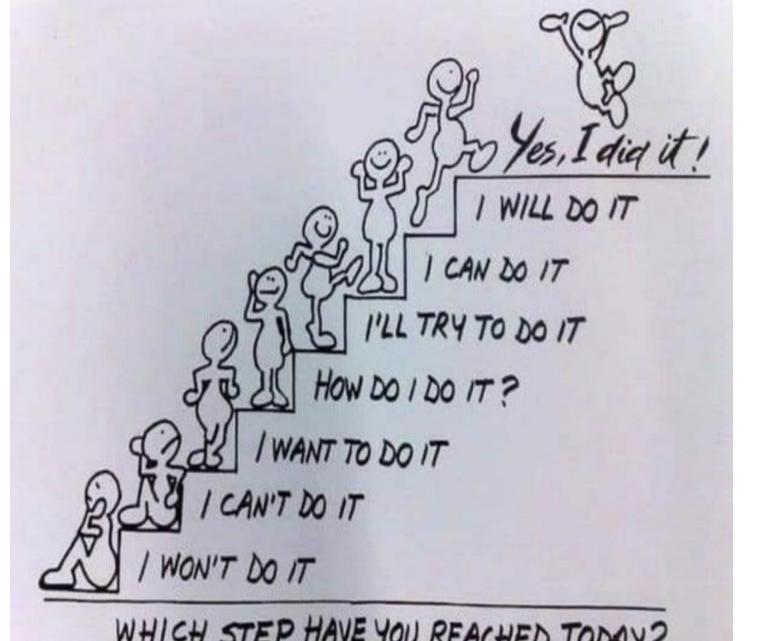




She also added: "the future feels uncertain and crazy right now, but i think we need to be ready to put the work in, and if we do that, we should be hopeful and excited for our future. I have to keep reminding myself that the future is ours, and I know we want to do everything we can to make it better for everyone in the world, and the world itself stay hopeful."

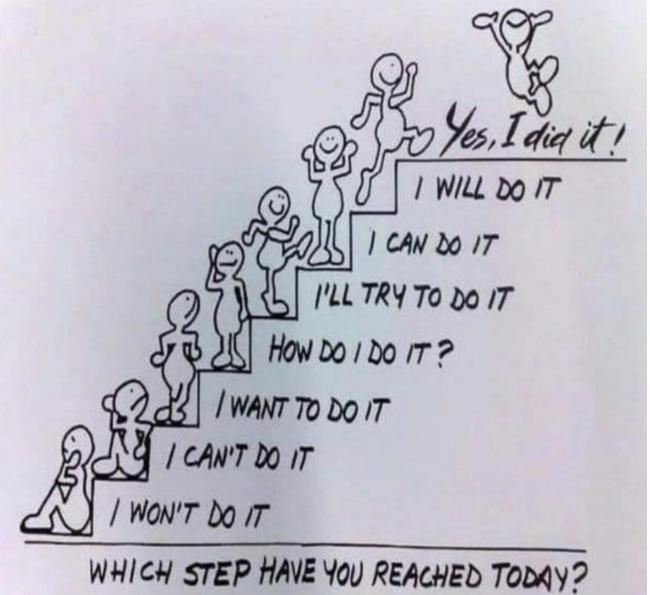






WHICH STEP HAVE YOU REACHED TODAY?





The Power of

I don't know ... YET

This doesn't work ...YET

I don't understand this ... YET

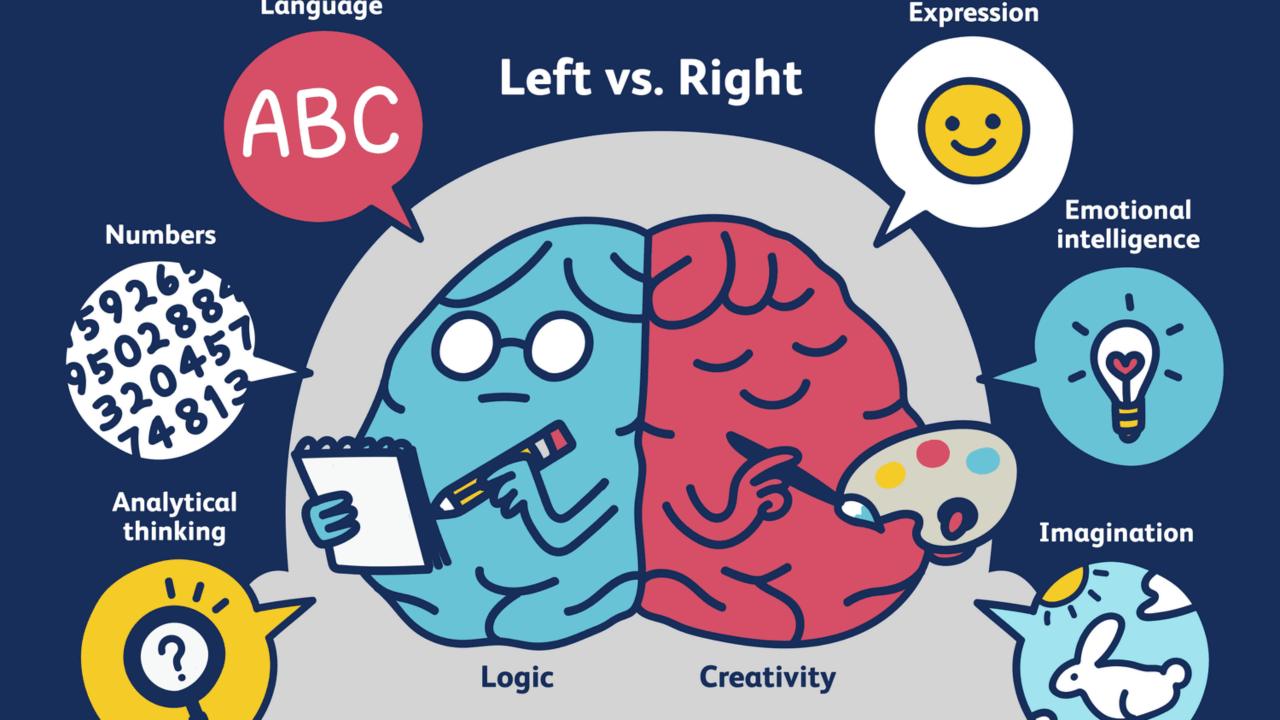
This doesn't make sense ...YET

I'm not good at this ... YET

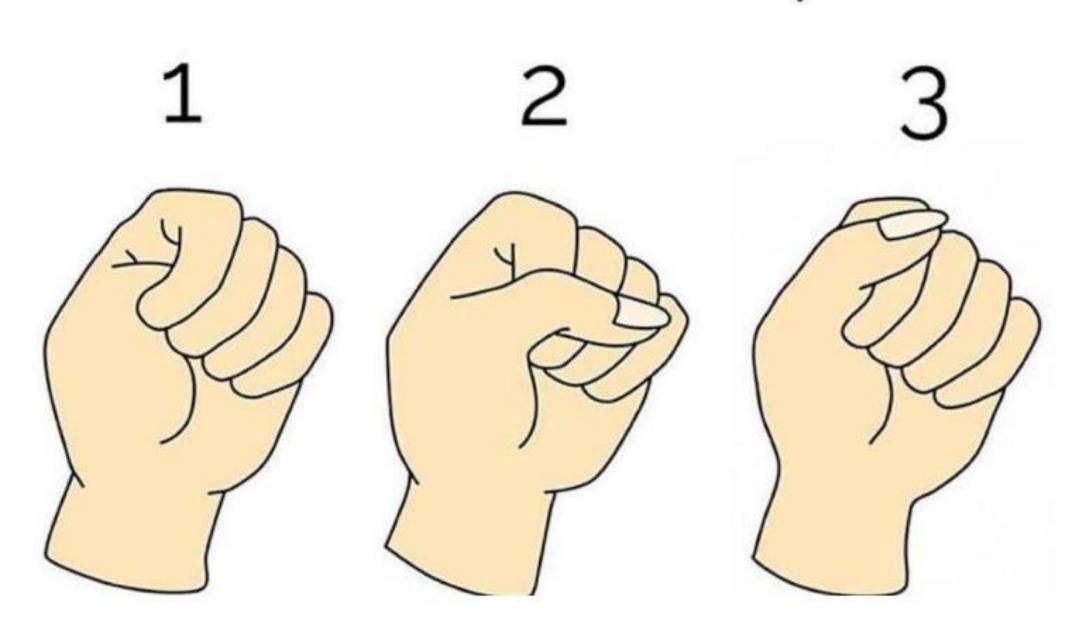
I can't do this ... YET

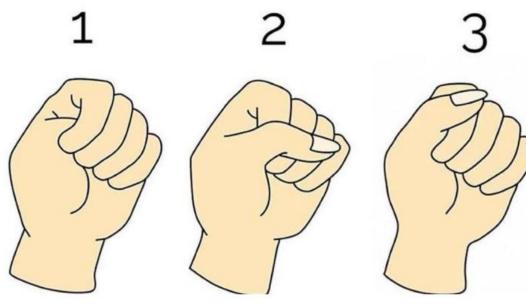
I don't get it ... YET

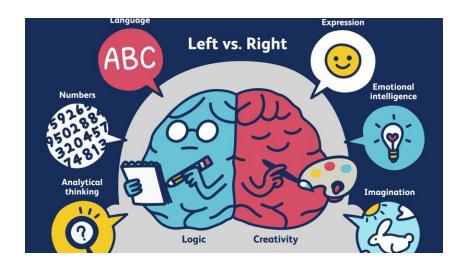
The product link can be found in the first comment in the comment section below.











Fist 1

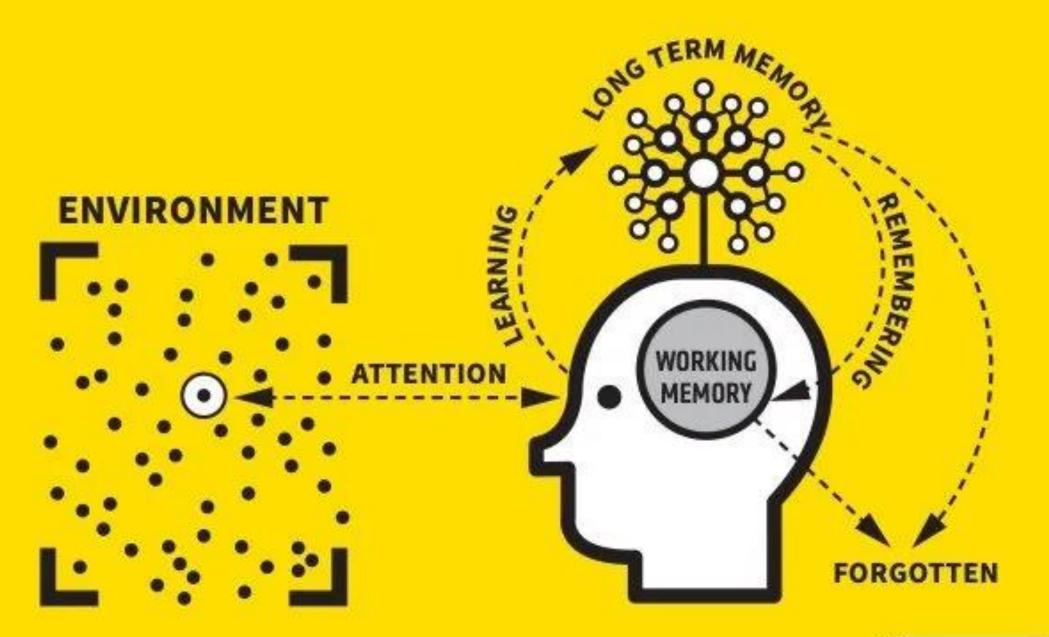
You are very excited, active and always looking for new adventures. You hate sitting still and can't bear imprisonment. You are an art and nature enthusiast. You express yourself well in general and have no problem speaking your mind in front of everyone. You are so calm and loving.

Fist 2

You are a very sociable person who wins everyone's trust. You are the best genius who excels in all fields. You hate injustice deeply and are very loving to everyone who crosses your path. You will be happy to help others and will be with a big mind.

Fist 3

You are very impatient and impulsive. Usually, you do not think twice about the decisions you make. You are so passionate about everything you do, you do it responsibly and pay attention to the smallest details. You are characterized by extreme honesty and excellent kindness.

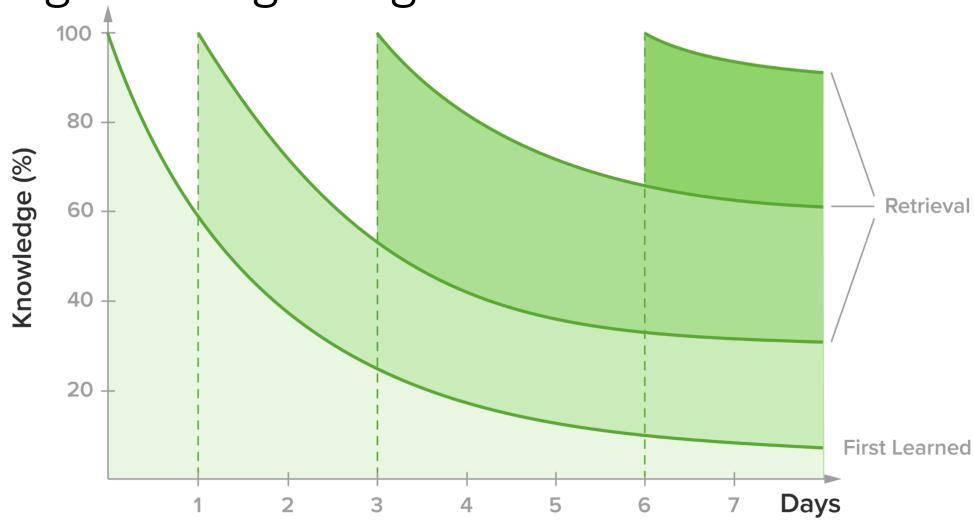




THE FORGETTING CURVE



Beating the Forgetting Curve!



MODULE 2: Foundations in biology 2.1.1: Cell structure

PLCs.....

Learners should be able to demonstrate and apply their Notes Revision knowledge and understanding of: ready? done? a) the use of microscopy to observe and investigate different types of cell and cell structure in a range of eukaryotic organisms b) the preparation and examination of microscope sides for use in light microscopy c) the use of staining in light microscopy d) the representation of cell structure as seen under the light microscope using drawings and annotated diagrams of whole cells or cells in sections of tissue e) the use and manipulation of the magnification formula f) the difference between magnification and resolution g) the ultrastructure of eukaryooc cells and the functions of the different collular components h) photomicrographs of cellular components in a range of eukaryotic cells () the interrelationship between the organelles involved in the production and secretion of proteins () the importance of the cytoskeleton k) the similarities and differences in the structure and ultrastructure of prokaryotic and eukaryotic cells

2.1.2: Biological molecules

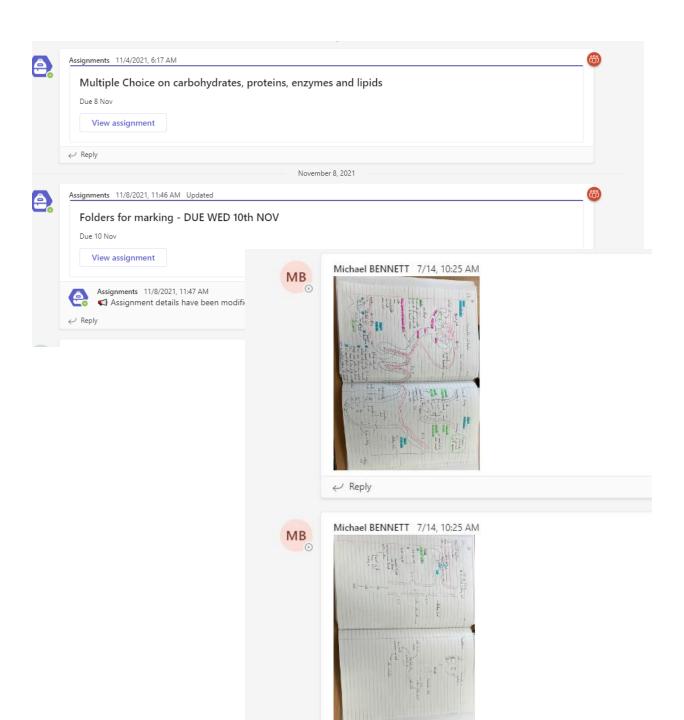
Learners should be able to demonstrate and apply their knowledge and understanding of:	Notes ready?	8	0	0	Revision done?
 a) how hydrogen bonding occurs between water molecules, and relate this, and other properties of water, to the roles of water for living organisms 					
 b) the concept of monomers and polymers and the importance of condensation and hydrolysis reactions in a range of biological molecules 					
c) the chemical elements that make up biological molecules					
d) the ring structure and properties of glucose as an example of a hexase monosaccharide and the structure of ribose as an example of a pentose monosaccharide					
 e) the synthesis and breakdown of a disaccharide and polysaccharide by the formation and breakage of glycosidic bonds 					
f) the structure of starch (arrylose and arrylopectin), alycogen and cellulose molecules					
g) how the structures and properties of glucose, starch, glycogen and cellulose molecules relate to their functions in bring organisms.					
h) the structure of a triglyceride and a phospholipid as examples of macromolecules					
i) the synthesis and breakdown of triglycerides by the formation (ester/ficasion) and breakage of ester bonds between fatty acids and glycerol					
g how the properties of triglyceride, phospholipid and cholesterol molecules relate to their functions in two organisms	ES				

8.2 A-level required practical activities

marksphysicshelp MPI

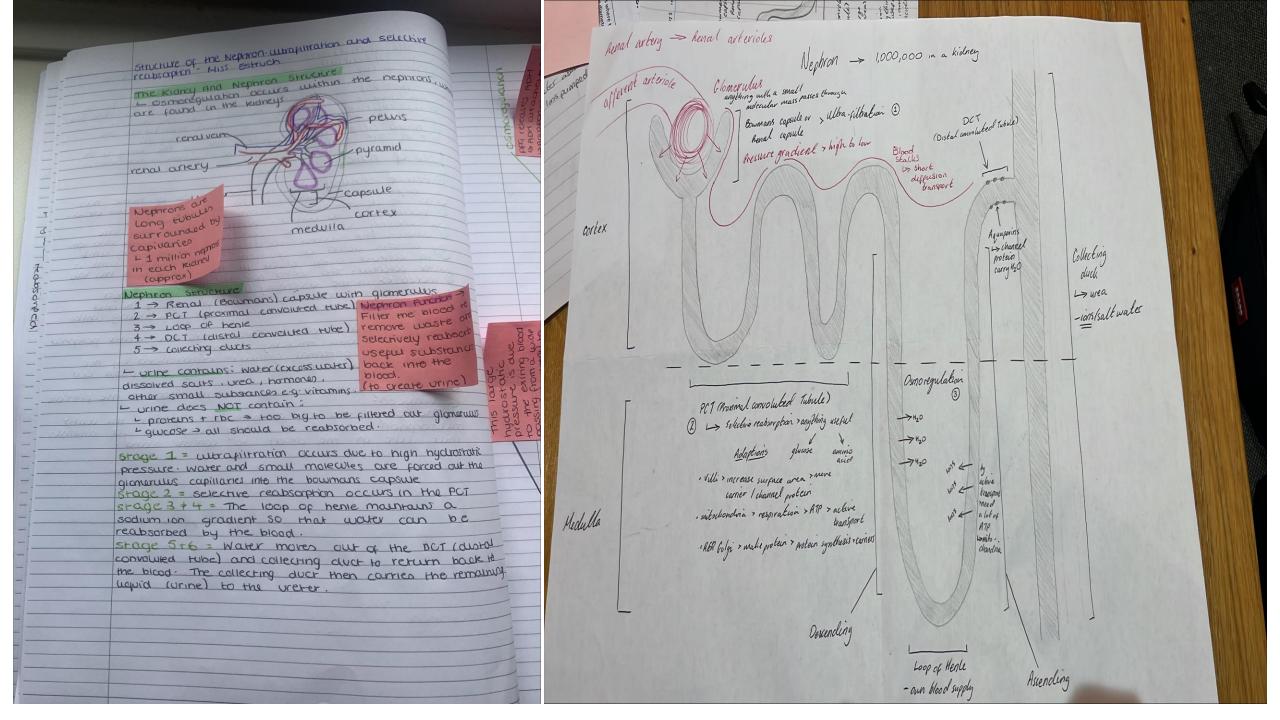
The following practicals must be carried out by all students taking this course. Written papers will assess knowledge and understanding of these, and the skills exemplified within each practical.

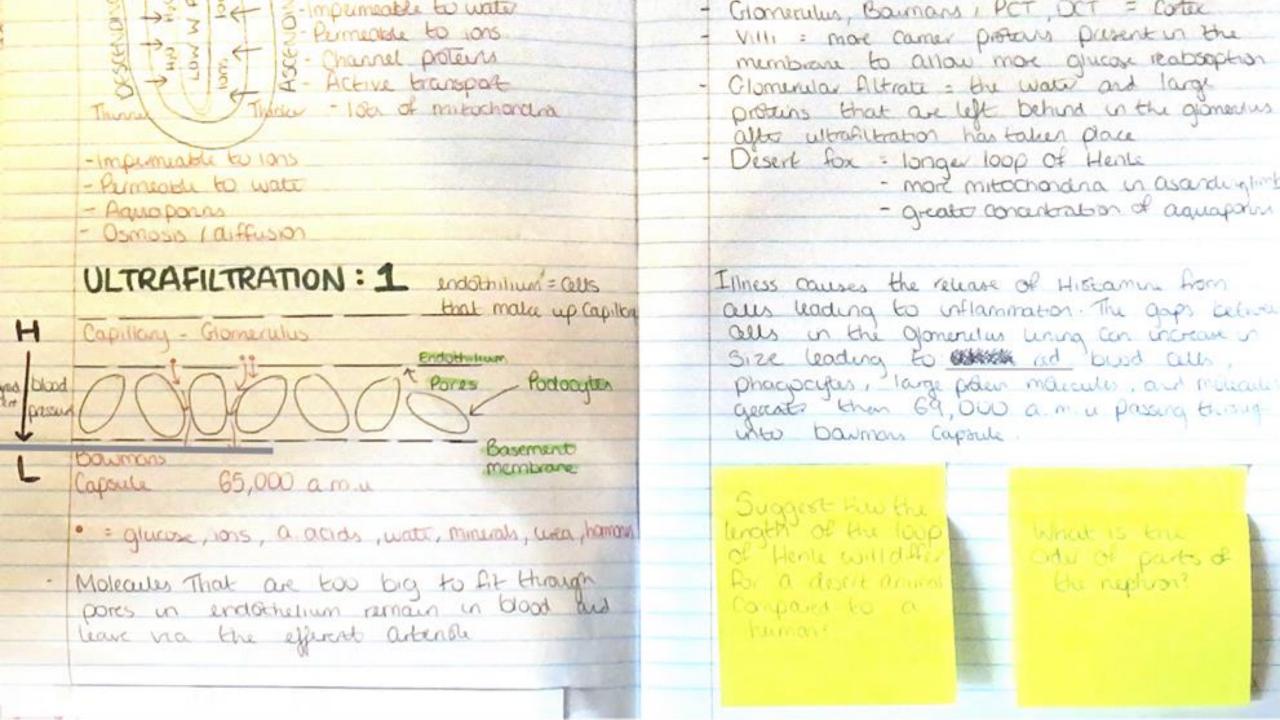
Required activity	Apparatus and technique reference
Investigation into the effect of a named variable on the rate of an enzyme-controlled reaction	a, b, c, f, l
2. Preparation of stained squashes of cells from plant root tips; set- up and use of an optical microscope to identify the stages of mitosis in these stained squashes and calculation of a mitotic index	d, e, f
3. Production of a dilution series of a solute to produce a calibration curve with which to identify the water potential of plant tissue	c, h, j, l
4. Investigation into the effect of a named variable on the permeability of cell-surface membranes	a, b, c, j, l
Dissection of animal or plant gas exchange or mass transport system or of organ within such a system	e, h, j
6. Use of aseptic techniques to investigate the effect of antimicrobial substances on microbial growth	c, i
7. Use of chromatography to investigate the pigments isolated from leaves of different plants, eg leaves from shade-tolerant and shade-intolerant plants or leaves of different colours	b, c, g
Investigation into the effect of a named factor on the rate of dehydrogenase activity in extracts of chloroplasts	a, b, c
Investigation into the effect of a named variable on the rate of respiration of cultures of single-celled organisms	a, b, c, i
10. Investigation into the effect of an environmental variable on the movement of an animal using either a choice chamber or a maze	h
11. Production of a dilution series of a glucose solution and use of colorimetric techniques to produce a calibration curve with which to identify the concentration of glucose in an unknown 'urine' sample	b, c, f
12. Investigation into the effect of a named environmental factor on the distribution of a given species	a, b, h, k, l

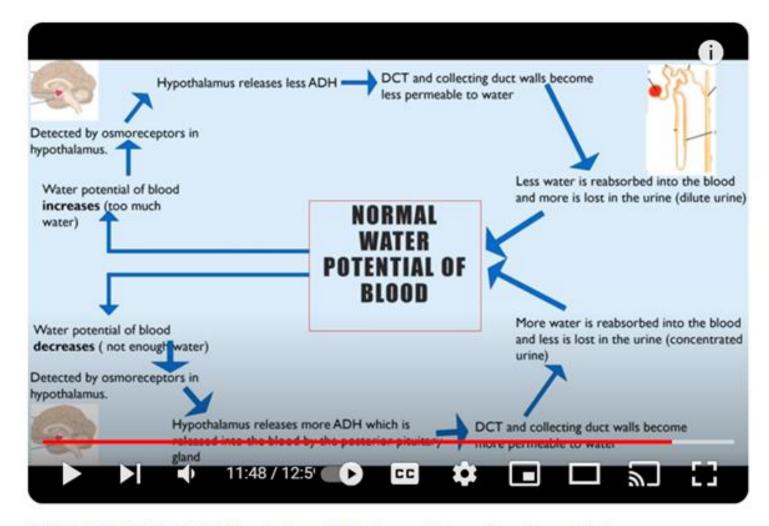


Zip your lip! He my turn." I can do this, I say.
" Jost back off let me learn!"

Shot your moute wire best is not good enough - Leave that sheet blank. Then Midge stringed to the snuffles and slumped to the floor. from "But where would you be if I some with you can't handle that - go take a which "I'd be writing! "Alfrights "say 1 say. "Or whatever But she settle right least a me and have so snuggle's against in, a may my chair, " Egg Than the tears start to tall, " But its carry and then of out there You're a sway, " I say, " and a bully to book, yours a meany," she says. and we I let out a both start to host. "Let me stay." Midge is whining. Her heads Greatly don't care if you think on my knee you "There, there is the sound starting, their rothing I lave me alone, In not quifting this time. The eyes that were dute a Then Ble started to pout. "But you can't even & Midge bites her lip. my town * tearer







OSMOREGULATION- A-level Biology. How the hypothalamus, posterior pituitary and ADH work together



Use exam board specific videos...play them 20-30 seconds at a time do the following

- 1. Just listen to it
- 2. Listen and take notes
- 3. Listen while reading your own notes you've made
- 4. Boom fast track into longer term memory with a quick image to summarise that section
- 5. Within 24 hours read or summarise your notes

Flashcard Days of the Week Retrieval

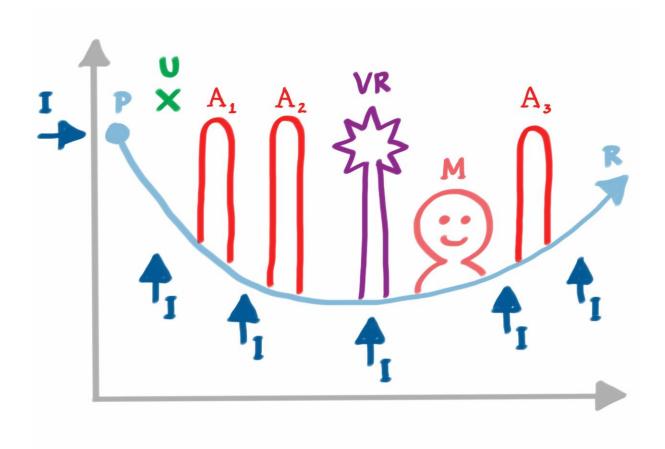


Monday: Test the meaning of your flashcards – ones you get SPOT ON CONFIDENTLY put them in Thursday pile © Flashcards that you get wrong put them on next day pile.

Tuesday: Test the meaning of the flashcards that were wrong on Monday – if RIGHT put on Thursday pile, if WRONG put on next day pile

And so on...until Thursday – review all flashcards ©

Repeat each week......look at the IMPACT!!!!



Use the exam question...

(e)	The concentration of mineral ions in the soil is lower than in root hair cells.
	Root hair cells take up mineral ions from the soil.
	Root hair cells contain mitochondria.
	Explain why root hair cells contain mitochondria.
	respiration occurs in mitochondria and this releases energ
	For the mineral ions to enter the root.

Use the exam question...

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Root hair cells contain mitochondria.

Explain why root hair cells contain mitochondria.

respiration occurs in mitochondria and this releases energy For the mineral ions to enter the root.

9)	(aerobic) respiration occurs in mitochondria
	do not accept anaerobic respiration
	(mitochondria / respiration) release energy do not accept energy produced / made / created
	(energy used for) active transport
	to transport ions, against the concentration gradient or from a low concentration to a high concentration

Use the exam question...

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from a low concentration to a high concentration

1

Turn it into a flash card......

Why do root hair cells contain mitochondria



Respiration takes place in mitochondria



Respiration releases energy

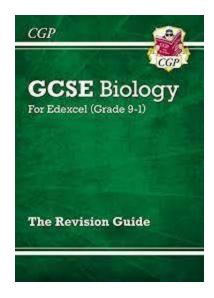




• Energy is used for active transport taking in minerals against concentration gradient

GCSE:

Neurones carry an electrical impulse from receptors in the fingers to the coordinator in the brain to the effector in the hand muscle



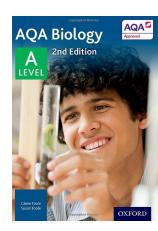
A Level Grade E:

Sensory neurones carry an electrical impulse from receptors in the fingers to the coordinator in the brain via relay and motor neurones to the effector

AQA Biology

in the hand muscle

A Level Grade C:



Sensory neurones carry an electrical impulse via saltatory conduction from Pacinian corpuscle receptors in the fingers to the motor area in cerebral hemisphere in the brain via relay and motor neurones to the effector in the hand muscle. The action of sodium and potassium ions causes a wave of depolarisation which is transmitted via channel proteins in the neurones

A Level Grade A:

Sensory neurones carry an electrical impulse via saltatory conduction from Pacinian corpuscle receptors in the fingers to the motor area in cerebral hemisphere in the brain via relay and motor neurones to the effector in the hand muscle. The action of sodium and potassium ions causes a wave of depolarisation which is transmitted via channel proteins in the neurones. High intensity stimuli result in higher frequency stimuli passing along neurones. Maximum depolarisation is +40mv per wave and is due to the alternating closure of sodium and potassium voltage gated proteins. Addition of sodium channel blockers will inhibit the depolarisation.

Dr Love's Top Study Skills to maximise your learning



Complete these activities along with your notes and textbook/online resources as you go through your course to help your revision. Remember, the more activities you can complete from memory, the better prepared for your assessment or exam you will be as you are retrieving the information making the knowledge long lasting. . Tick the circle once you have completed each task. Aim for a Full House!

PRIORITISE RED, AMBER, CREEN review each section

of your notes. Create a revision plan with

how much time you are going to spend.

nevising each section and what revision.

activities you plien to do.

aryourselffrom memory.



Create a 'tough, tougher or toughest' examquestion using your knowledge organiser. Create a mark scheme or success criteria. for the question before enswering it or awapping yours with a friend.

CREATE



The Magnets Principles: Mile Hughes





Asserting III.



- Character in
- Company and Company of Company of the



REDUCE



CHANGE



Reduce your notes into a summary of the Change the information on your notes intoentire topic of no more than 100 words. After you have done, reduce any Imformation you have not included into a nother summery of 100 words.

a mind map, revision tree or revision flesh. cands. Any cue cards or revision notes must be of a high standard in order to be useful.



CREATE

Create a quick fire quiz of questions of

Make sureyou have the questions and

in preasing difficultly based on your notes.

answers prepared then test either a friend



Read the information on your notes for 3 minutes, then turn it over. Write everything you can remember in BLACK. Writeeverything you forgot in RED.

RECALL



CONNECT



Think of a word that is connected to your chasentopic or notes for each letter A-2. OPTIONS: time limit, miss out Q,X,Z, define your chosen words, explain your choices.



CREATE



Create area, poem, or song to helpyou. remember the key information from your notes. Make a video of it on your phone. and play it over a few times- will have a mading effects on your ability to



CATEGORISE Divide a page into four with the titles 1, 2, 3

and 4. For every sentence of your notes.

After revising some more complete this:

activity again to see if this changes with

categorises not write it into a section with 1.

being fully understood and 4 being no idea.



EXPAND



REDUCE



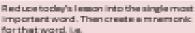
CONNECT

What are the 15 most important words in

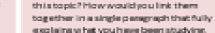


Count the number of words in a section of your notes. Expand this summery to at least twice that number by providing a more. detailed description or explanation of the combant.





REDUCE - Radical, Education, Develops, Understanding Cognition, and Engagement.





CONNECT

In pairs, one of you SECREBLY chooses a

section of your notes or key word. Your

pertner has to guess your choice by asking



pervision.

CREATE



CHANGE



RECALL



Draw an outline of a brain. From MEMONY, fill it with everything you. have LEARNT or REMEMBER from your

RED, AMEER, CREEN review the knowledge within the brain.



> ONLY give "yes" or "no" enevers. middle, and end. The winner asks the FEWEST questions.

EXPAND



Choose a section of your notes and think of three questions you still have linked to it. Use alphone or a laptop to research the answers and write a paragraph. summarising your findings.



Write estory or comic strip to represent the key information from your notes. Stories hold a special position in our memory and should have a clear beginning.

Choose's paragraph of text and either select or highlight the main keywords. (a void highlighting every other word in the penagraph). Find or draw images that represent the words that you have highlighted.



Reduce your notes into just a list of the heading connects to the other. Form as-

CONNECT

hleadings of each section. Explain how each many connections as you can.

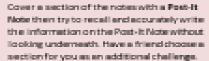
APPLY



Use the information on your notestago back through your exercise book and make arry additions, corrections or improvements to your class work in GREEN PEN.



RECALL



What are your strengths for the coming year in your studies

What are your worries for the coming year for your studies

What opportunities/looking forward to most for the coming year in your studies

What do you think the barriers will be that stop you becoming successful for the coming year in your studies

What are your strengths for the coming year in your studies

What are your worries for the coming year for your studies

Enjoy the subjects I've selected and I know the teachers well

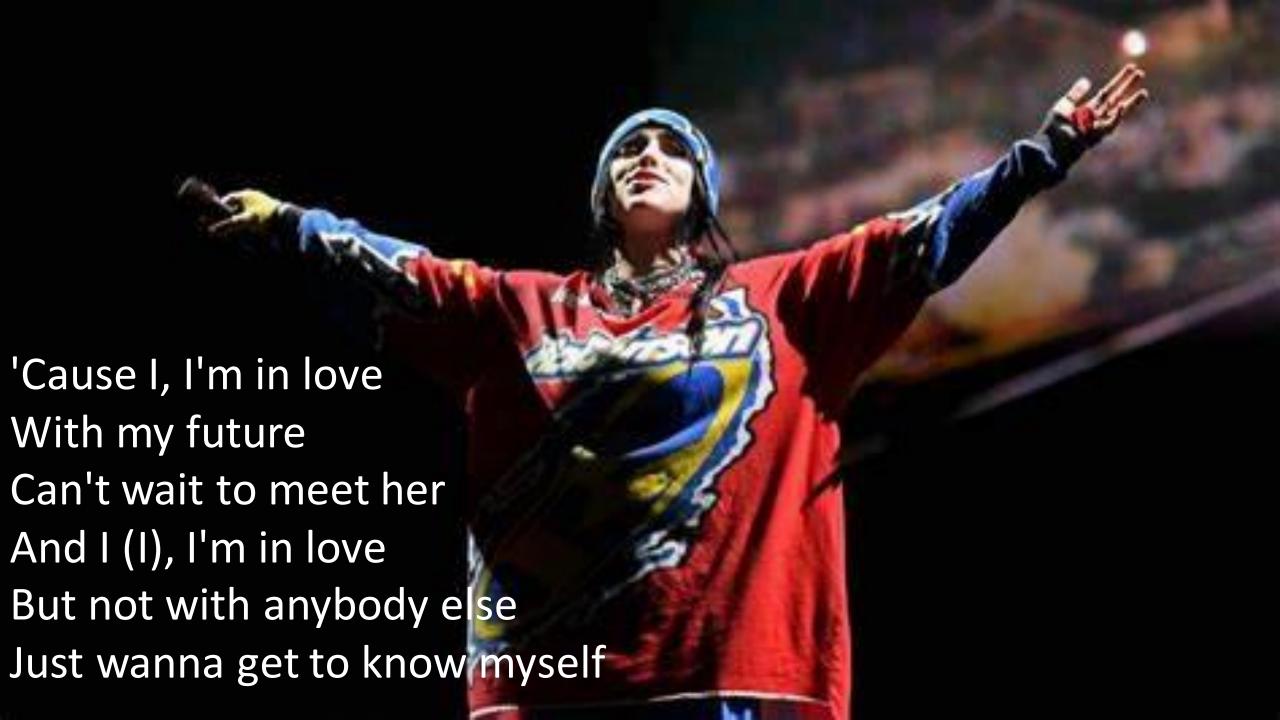
What to do if I don't understand the work in the lesson I have just had

What opportunities/looking forward to most for the coming year in your studies

What do you think the barriers will be that stop you becoming successful for the coming year in your studies

Looking forward to working with my friends I and being more independent

Handing work in on time, concentration in class



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HIGHDOWN SIXTH FORM CENTRE

www.highdown.reading.sch.uk

On Twitter - @Highdown6thForm

