

Getting exam ready.

How to prepare for your GCSE science examinations.

Take **organised, neat** and **detailed** notes in class.



Make, and regularly refer to, a list of **key scientific words** for each topic.



Schedule in time for your **hobbies**.



Complete lots of **past papers**.



Listen to your teacher!

Revise in two **25 minute** blocks, with a 10 minute break.



Get plenty of **sleep**



Make a revision **timetable**



Draw **diagrams** to use as prompts.

Push yourself in lessons



Plan your answer to short essay style questions.



... and stick to it!

Switch **off** all distractions

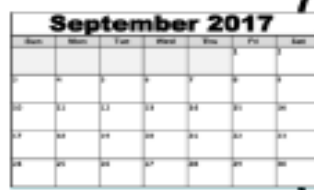


Always **mark** and **correct** your completed past papers.



Eat a **good, balanced** diet.

Sugary foods will make it difficult for you to concentrate.



Start your revision **early** in the academic year.

Ask family to **test** you on long car journeys.



Never leave a lesson without **understanding** the lesson content.



6 Tips for revising GCSE Science

- Alternate your techniques
- Use the past papers
- Teach someone else
- Do more of what you don't like
- Push yourself in lessons
- Take care of yourself

Alternate your techniques

There are a variety of ways to revise and it's very easy to get overwhelmed and frustrated.

The best thing to do is to vary the techniques you use so that you don't get bored and so that you understand the content from all angles.



Use past papers

- GCSE past papers are a goldmine of information.
- There are only so many questions that can be asked on each topic, so if you have done every past paper since 2018 then some of the same questions are bound to come up.
- You'll begin to understand the key terminology that examiners would like you to use.

So, for example, the AQA GCSE mark schemes insist that you use the word light or sunlight to describe where plants get their energy for photosynthesis, but you wouldn't get the mark for just sun!

Teach someone else

Trying to teach someone else a topic exposes the parts of it you're less good at and can guide your revision accordingly.

You can teach:

- A family member
- Your peers – learn some topics between you and then teach each other



Do more of what you don't like

It's easy to fall into the trap of revising the topics and subjects you like. This is gratifying because you do well on practice questions and flash cards.

It's better to spend your time on topics you find difficult. Try to make a list of these and don't fall into the trap of avoiding them.

Stay confident and trust in the process – by revising consistently throughout the year, you will see your marks improve, even if it's not immediate.

Push yourself in lessons

Everything you do in lessons this year is geared towards helping you to achieve exam success.

Use this time to your best advantage so that you are improving your knowledge and understanding and practising important skills you will need for your exams.



Take care of yourself

All other advice is pointless if you're not taking care of yourself.





























- Get enough sleep
- Stick to a regular sleep pattern
- Keep away from electronics an hour before bedtime
- Eat healthily and stay hydrated – keep time when you're eating as relaxation time
- Take breaks



YEAR 11 SEPARATE SCIENCE HIGHER TIER MOCK PAPER 1 REVISION SCHEDULE

Date								
Topic	B1	B2	C1	C2	P1	P2	B3	C3
Revision guide page numbers	2-23	24-33	2-13	38-48	2-13	14-25	37 46-59	14-37 48-57
Date								
Topic	P3	P4	B4	C4	B5	B6	B7	C5
Revision guide page numbers	26-35	39 48-59	34-45 60-71	58-77	72-83	84-105	106-117	68-97
Date								Monday December 11th
Topic	P5	B8	C6	P6	B9	C7	P7	
Revision guide page numbers	36-47	118-129	98-109	60-71	130-141	110-119	72-95	





























	SEPARATE SCIENCE TOPICS		
	BIOLOGY	CHEMISTRY	PHYSICS
PAPER 1 <i>1 hour 45 minutes</i>	<ul style="list-style-type: none"> <input type="checkbox"/> B1 – Cell Structure & Transport <input type="checkbox"/> B2 – Cell Division <input type="checkbox"/> B3 – Organisation & the Digestive System <input type="checkbox"/> B4 – Organising Plants & Animals <input type="checkbox"/> B5 – Communicable Diseases <input type="checkbox"/> B6 – Preventing & Treating Disease <input type="checkbox"/> B7 – Non-Communicable Diseases <input type="checkbox"/> B8 – Photosynthesis <input type="checkbox"/> B9 – Respiration 	<ul style="list-style-type: none"> <input type="checkbox"/> C1 – Atomic Structure <input type="checkbox"/> C2 – The Periodic Table <input type="checkbox"/> C3 – Structure & Bonding <input type="checkbox"/> C4 – Chemical Calculations <input type="checkbox"/> C5 – Chemical Changes <input type="checkbox"/> C6 – Electrolysis <input type="checkbox"/> C7 – Energy Changes 	<ul style="list-style-type: none"> <input type="checkbox"/> P1 – Conservation & Dissipation of Energy <input type="checkbox"/> P2 – Energy Transfer by heating <input type="checkbox"/> P3 – Energy Resources <input type="checkbox"/> P4 – Electric Circuits <input type="checkbox"/> P5 – Electricity in the Home <input type="checkbox"/> P6 – Molecules & Matter <input type="checkbox"/> P7 – Radioactivity

B1	 	https://www.youtube.com/watch?v=qHkUOIC8Nbo https://www.youtube.com/watch?v=sdpmVQooYS4	C1		https://www.youtube.com/watch?v=bgyuXU97jal	P1		https://www.youtube.com/watch?v=H6D_ViW0Ch4
B2		https://www.youtube.com/watch?v=RHyZVmbiA78	C2		https://www.youtube.com/watch?v=uwzXfZoCP_k	P2		https://www.youtube.com/watch?v=Eizsm5V8c_c
B3	 	https://www.youtube.com/watch?v=vMI46qGQMDw https://www.youtube.com/watch?v=4ui4oSHHzA	C3		https://www.youtube.com/watch?v=YpEQ-NWxKBc	P3		https://www.youtube.com/watch?v=AOhQ4gj4Ng8
B4		https://www.youtube.com/watch?v=DJ0lZGkDx6A	C4		https://www.youtube.com/watch?v=eAibVvhmsK0	P4		https://www.youtube.com/watch?v=jSA4WaLSVEA
B5	 	https://www.youtube.com/watch?v=QYWNXp36O48 https://m.youtube.com/watch?v=dbd5iydu3EY&t=0s	C5		https://www.youtube.com/watch?v=KTmXEliU_Go	P5		https://www.youtube.com/watch?v=fbu3o9wavHk
B6		https://www.youtube.com/watch?v=m7pxdTJ9NPI	C6	  	https://www.youtube.com/watch?v=AhTRiL6xjBA https://www.youtube.com/watch?v=6WjC_Vi4roA https://www.youtube.com/watch?v=ukbtTTG1Kew	P6		https://www.youtube.com/watch?v=cZz9oGgJOL0
B7		https://www.youtube.com/watch?v=QYWNXp36O48				P7		https://www.youtube.com/watch?v=F_Y1-JieCrg
B8		https://www.youtube.com/watch?v=X81OikeuHJw	C7		https://www.youtube.com/watch?v=L7829UGifpM			
B9		https://www.youtube.com/watch?v=ZKAaDbTP6Dc						

YEAR 11 COMBINED SCIENCE FOUNDATION TIER MOCK PAPER 1 REVISION SCHEDULE

Date								
Topic	B1	B2	B3	B4	B5	B6	B7	B8
Revision guide page numbers	2-11 12-21	22-31	32 42-51	32-41 52-61	62-71	72-81	82-91	92-101
Date								
Topic	B9	C1	C2	C3	C4	C5	C6	C7
Revision guide page numbers	92-101	180-189	210-219	190-209	220-229	230-239	240-249	250-257
Date								Exam week begins - Monday December 11th
Topic	P1	P2	P3	P4	P5	P6	P7	
Revision guide page numbers	318-325	318-325	326-335	346-355	336-345	356-365	376-385	

	COMBINED SCIENCE TOPICS		
	BIOLOGY	CHEMISTRY	PHYSICS
PAPER 1 <i>1 hour 15 minutes</i>	<ul style="list-style-type: none"> <input type="checkbox"/> B1 – Cell Structure & Transport <input type="checkbox"/> B2 – Cell Division <input type="checkbox"/> B3 – Organisation & the Digestive System <input type="checkbox"/> B4 – Organising Plants & Animals <input type="checkbox"/> B5 – Communicable Diseases <input type="checkbox"/> B6 – Preventing & Treating Disease <input type="checkbox"/> B7 – Non-Communicable Diseases <input type="checkbox"/> B8 – Photosynthesis <input type="checkbox"/> B9 – Respiration 	<ul style="list-style-type: none"> <input type="checkbox"/> C1 – Atomic Structure <input type="checkbox"/> C2 – The Periodic Table <input type="checkbox"/> C3 – Structure & Bonding <input type="checkbox"/> C4 – Chemical Calculations <input type="checkbox"/> C5 – Chemical Changes <input type="checkbox"/> C6 – Electrolysis <input type="checkbox"/> C7 – Energy Changes 	<ul style="list-style-type: none"> <input type="checkbox"/> P1 – Conservation & Dissipation of Energy <input type="checkbox"/> P2 – Energy Transfer by heating <input type="checkbox"/> P3 – Energy Resources <input type="checkbox"/> P4 – Electric Circuits <input type="checkbox"/> P5 – Electricity in the Home <input type="checkbox"/> P6 – Molecules & Matter <input type="checkbox"/> P7 – Radioactivity

B1	 	https://www.youtube.com/watch?v=qHkUOIC8Nbo https://www.youtube.com/watch?v=sdpmVQooYS4	C1		https://www.youtube.com/watch?v=bgyuXU97jal	P1		https://www.youtube.com/watch?v=H6D_ViW0Ch4
B2		https://www.youtube.com/watch?v=RHyZVmbiA78	C2		https://www.youtube.com/watch?v=uwzXfZoCP_k	P2		https://www.youtube.com/watch?v=Eizsm5V8c_c
B3	 	https://www.youtube.com/watch?v=vMI46qGQMDw https://www.youtube.com/watch?v=4ui4oSHHzA	C3		https://www.youtube.com/watch?v=YpEQ-NWxKBc	P3		https://www.youtube.com/watch?v=AOhQ4gj4Ng8
B4		https://www.youtube.com/watch?v=DJ0lZGkDx6A	C4		https://www.youtube.com/watch?v=eAibVvhmsK0	P4		https://www.youtube.com/watch?v=jSA4WaLSVEA
B5	 	https://www.youtube.com/watch?v=QYWNXp36O48 https://m.youtube.com/watch?v=dbd5iydu3EY&t=0s	C5		https://www.youtube.com/watch?v=KTmXEliU_Go	P5		https://www.youtube.com/watch?v=fbu3o9wavHk
B6		https://www.youtube.com/watch?v=m7pxdTJ9NPI	C6	  	https://www.youtube.com/watch?v=AhTRiL6xjBA https://www.youtube.com/watch?v=6WjC_Vi4roA https://www.youtube.com/watch?v=ukbtTTG1Kew	P6		https://www.youtube.com/watch?v=cZz9oGgJOL0
B7		https://www.youtube.com/watch?v=QYWNXp36O48				P7		https://www.youtube.com/watch?v=F_Y1-JieCrg
B8		https://www.youtube.com/watch?v=X81OikeuHJw	C7		https://www.youtube.com/watch?v=L7829UGifpM			
B9		https://www.youtube.com/watch?v=ZKAaDbTP6Dc						

YEAR 11 COMBINED SCIENCE HIGHER TIER MOCK PAPER 1 REVISION SCHEDULE

Date								
Topic	B1	B2	C1	C2	P1	P2	B3	C3
Revision guide page numbers	2-21	22-31	184-193	214-223	336-345	336-345	42-51	194-213
Date								
Topic	P3	P4	B4	C4	B5	B6	B7	C5
Revision guide page numbers	346-355	366-375	32-41 & 52-61	224-233	62-71	72-81	82-91	234-253
Date								Exam week begins - Monday December 11th
Topic	P5	B8	C6	P6	B9	C7	P7	
Revision guide page numbers	356-365	92-101	254	376-385	102-111	264-273	386-405	

COMBINED SCIENCE TOPICS

BIOLOGY

CHEMISTRY

PHYSICS





























PAPER 1

1 hour 15 minutes

- B1 – Cell Structure & Transport
- B2 – Cell Division
- B3 – Organisation & the Digestive System
- B4 – Organising Plants & Animals
- B5 – Communicable Diseases
- B6 – Preventing & Treating Disease
- B7 – Non-Communicable Diseases
- B8 – Photosynthesis
- B9 – Respiration

- C1 – Atomic Structure
- C2 – The Periodic Table
- C3 – Structure & Bonding
- C4 – Chemical Calculations
- C5 – Chemical Changes
- C6 – Electrolysis
- C7 – Energy Changes

- P1 – Conservation & Dissipation of Energy
- P2 – Energy Transfer by heating
- P3 – Energy Resources
- P4 – Electric Circuits
- P5 – Electricity in the Home
- P6 – Molecules & Matter
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B1	 	https://www.youtube.com/watch?v=qHkUOIC8Nbo https://www.youtube.com/watch?v=sdpmVQooYS4	C1		https://www.youtube.com/watch?v=bgyuXU97jal	P1		https://www.youtube.com/watch?v=H6D_ViW0Ch4
B2		https://www.youtube.com/watch?v=RHyZVmbiA78	C2		https://www.youtube.com/watch?v=uwzXfZoCP_k	P2		https://www.youtube.com/watch?v=Eizsm5V8c_c
B3	 	https://www.youtube.com/watch?v=vMI46qGQMDw https://www.youtube.com/watch?v=4ui4oSHHzA	C3		https://www.youtube.com/watch?v=YpEQ-NWxKBc	P3		https://www.youtube.com/watch?v=AOhQ4gj4Ng8
B4		https://www.youtube.com/watch?v=DJ0lZGkDx6A	C4		https://www.youtube.com/watch?v=eAibVvhmsK0	P4		https://www.youtube.com/watch?v=jSA4WaLSVEA
B5	 	https://www.youtube.com/watch?v=QYWNXp36O48 https://m.youtube.com/watch?v=dbd5iydu3EY&t=0s	C5		https://www.youtube.com/watch?v=KTmXEliU_Go	P5		https://www.youtube.com/watch?v=fbu3o9wavHk
B6		https://www.youtube.com/watch?v=m7pxdTJ9NPI	C6	  	https://www.youtube.com/watch?v=AhTRiL6xjBA https://www.youtube.com/watch?v=6WjC_Vi4roA https://www.youtube.com/watch?v=ukbtTTG1Kew	P6		https://www.youtube.com/watch?v=cZz9oGgJOL0
B7		https://www.youtube.com/watch?v=QYWNXp36O48				P7		https://www.youtube.com/watch?v=F_Y1-JieCrg
B8		https://www.youtube.com/watch?v=X81OIkeuHJw	C7		https://www.youtube.com/watch?v=L7829UGifpM			
B9		https://www.youtube.com/watch?v=ZKAaDbTP6Dc						

Useful links

www.kerboodle.co.uk

www.bbcbiteseize.co.uk

www.senecalearning.co.uk

Kerboodle login:

Username – lpigott19

Password – lpigott19

Institution code - pv1

<https://www.bbc.co.uk/bitesize/examspecs/z8r997h> COMBINED SCIENCE

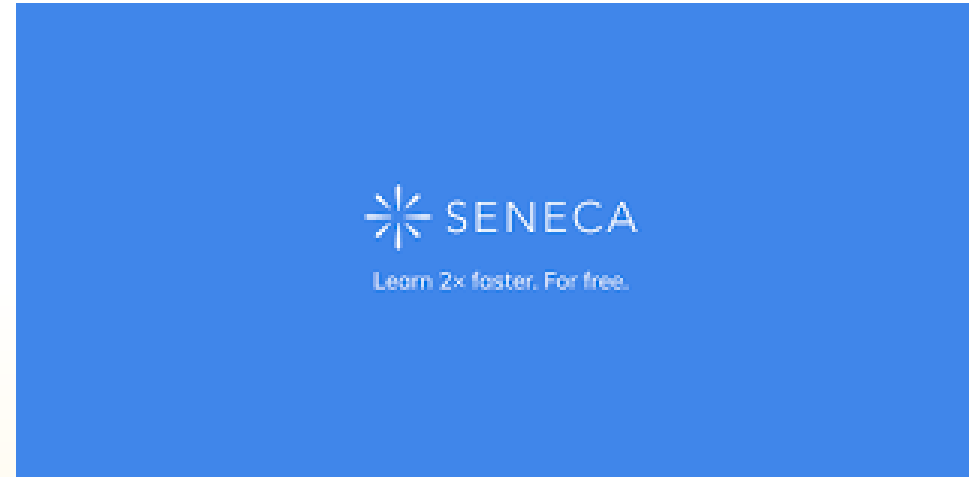
<https://www.bbc.co.uk/bitesize/examspecs/zpgcbk7> BIOLOGY

<https://www.bbc.co.uk/bitesize/examspecs/z8xtmnb> CHEMISTRY

<https://www.bbc.co.uk/bitesize/examspecs/zsc9rdm> PHYSICS

Useful Apps

 **Equations**



Revision Menu

Remember to EMBRACE struggle! Everything should be from memory and independent. If you look at your notes, change colour pen...

5 min activities:

- Flash cards
- Try an exam question
- Create a concept mind map
- Quiz questions/23 equations
- 5 minute 6 mark question plan
- Write formulas from memory

10 min activities:

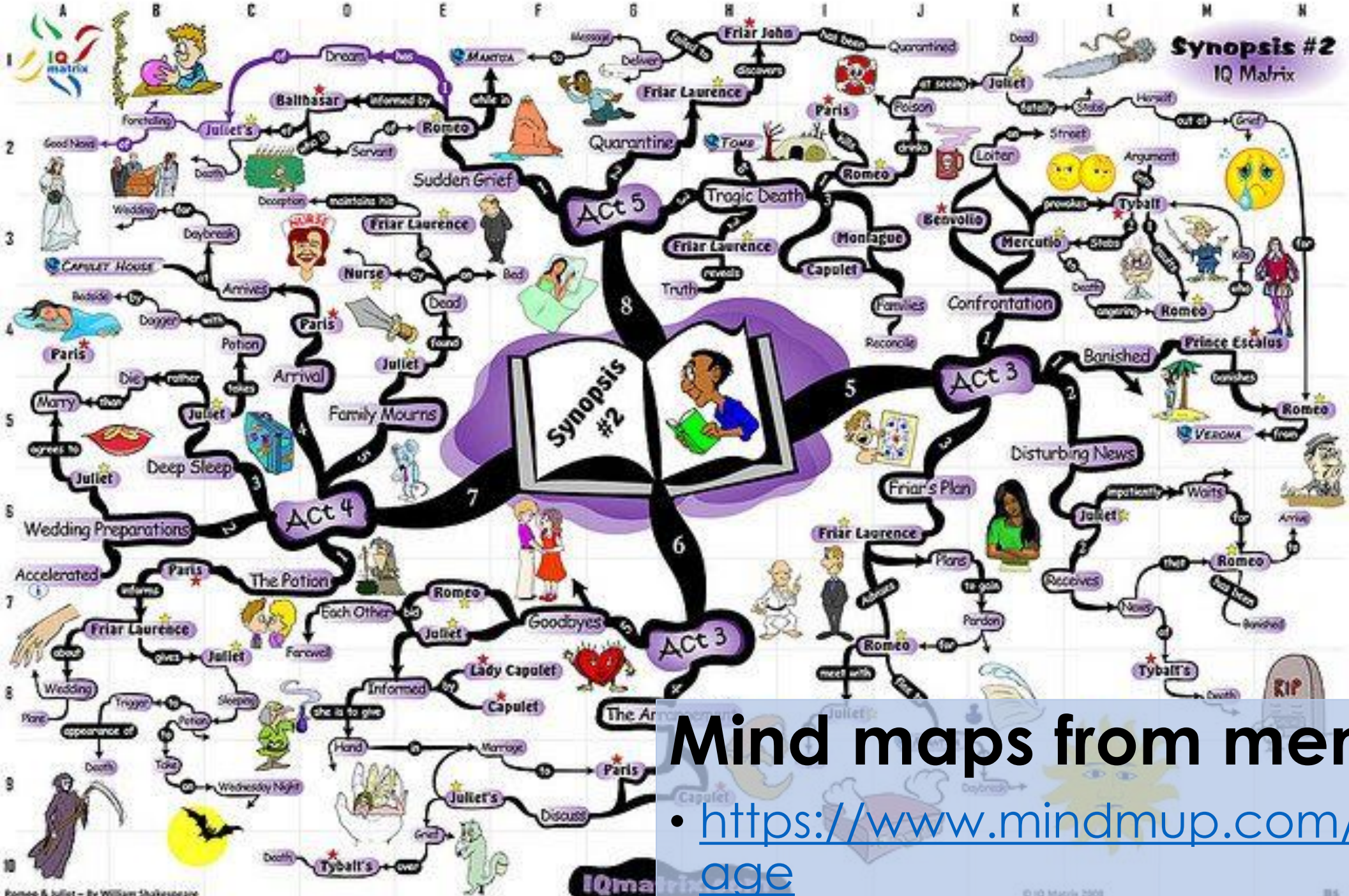
- Watch GCSE revision video - links on the revision timetable
- Write a method for a Required Practical with the key terminology.
- Answer 6 quiz questions
- Test yourself using your flashcards - randomly chosen

30 min activities:

- Plan / write and self-assess an answer to a 6 mark question
- Exampro questions and self-assess
- Complete Seneca tutorial and quiz
- Create a mind map from memory, for a topic you have revised.

Resources:

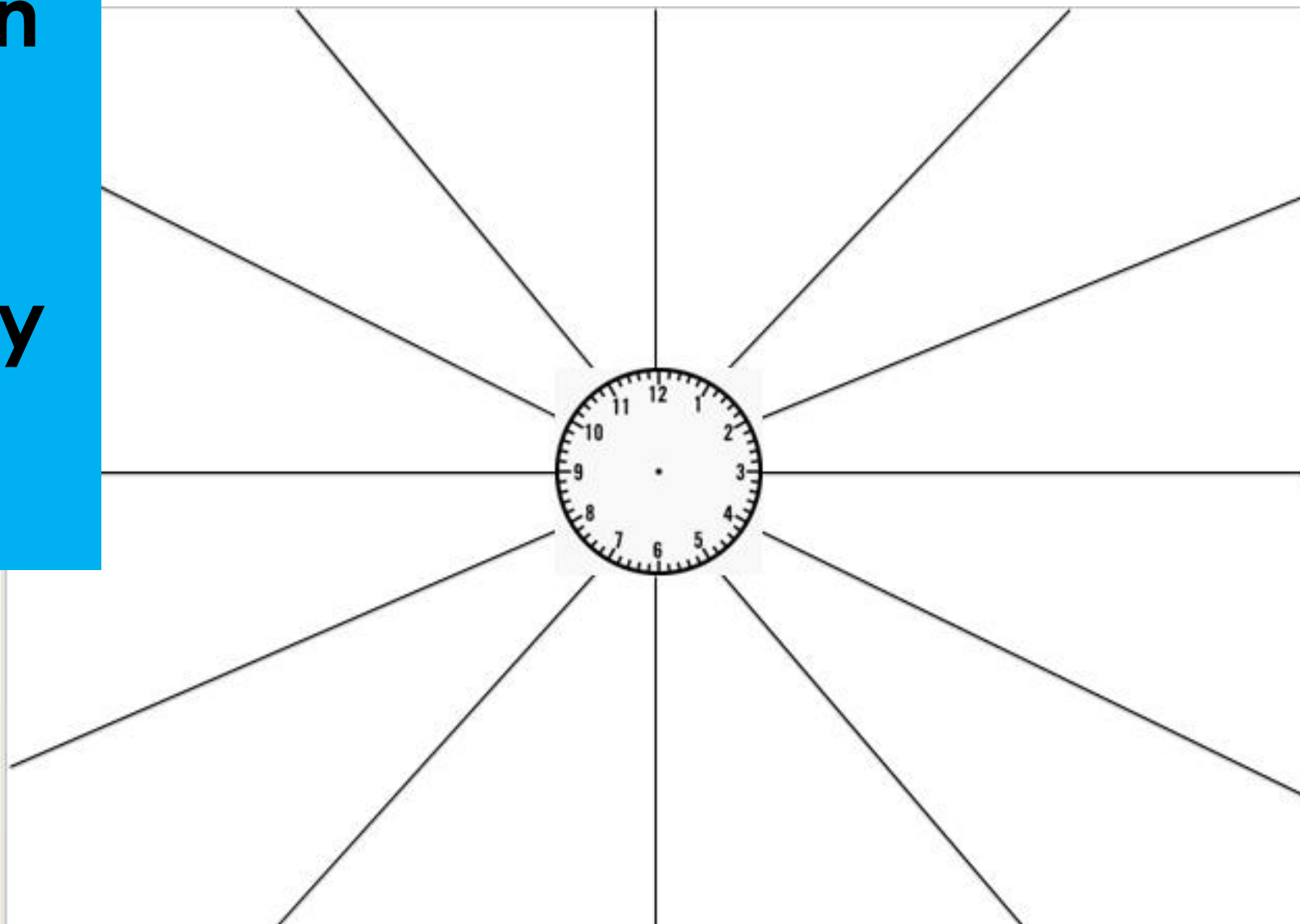
- Revision clocks - set your own time limit!
- Flash cards
- Mind maps



Mind maps from memory

- <https://www.mindmup.com/#storage>

**Revision
clock,
from
memory
in an
hour...**



Revision clock, from memory in an hour...

WATER ON THE LAND

THE WATER MANAGEMENT
 SURPLUS - AREA WITH TOO MUCH WATER
 DEFICIT - AREA WITH NOT ENOUGH WATER

CASE STUDY OF A WATER TRANSFER SCHEME
 LAKE VICTORIA - DRAINAGE
 WATER SURPLUS - WATER DEFICIT - LAKE VICTORIA
 ADELPHI DAM
 ISSUES: 1. LOSS OF FARMING + WOODLANDS
 2. LOSS OF BIODIVERSITY
 3. LOSS OF FISHING
 4. LOSS OF LAND TO BE SWAMPED
 5. LOSS OF FISHING
 6. LOSS OF FISHING
 7. LOSS OF FISHING
 8. LOSS OF FISHING
 9. LOSS OF FISHING
 10. LOSS OF FISHING

EROSION
 Hydraulic Action - force of water against bed + banks
 Abrasion - wearing away of material (sandpaper)
 Attrition - material breaks + breaks into smaller pieces
 Solution - acids in water will dissolve material

TRANSPORTATION
 1. Traction
 2. Saltation
 3. Suspension
 4. Solution

RIVER DRAINAGE BASIN
 SOURCE - WATERSHED
 MOUTH
 UPPER COURSE / MIDDLE COURSE / LOWER COURSE
 RIVER CROSS PROFILE
 DISTANCE FROM SEA

RIVER LONG PROFILE
 HEIGHT (m)
 DISTANCE FROM SEA

RIVER LANDFORMS IN THE UPPER COURSE
 WATERFALLS + GORGES
 MEANDERS
 FLOODPLAIN LEVELS

RIVER LANDFORMS IN THE MIDDLE COURSE
 MEANDERS
 FLOODPLAIN LEVELS

RIVER LANDFORMS IN THE LOWER COURSE
 FLOODPLAIN LEVELS
 DEPOSITION

RIVER HYDROLOGICAL CYCLE
 Precipitation
 Evaporation
 Condensation
 Surface Runoff
 Infiltration
 Groundwater Flow
 Base Flow
 Interception

FACTORS AFFECTING DRAINAGE
 1. CLIMATE - shape the land - more surface runoff
 2. VEGETATION - water cannot infiltrate
 3. IMPERMEABLE ROCK - water can't infiltrate
 4. DEPRESSIONS - water can't infiltrate

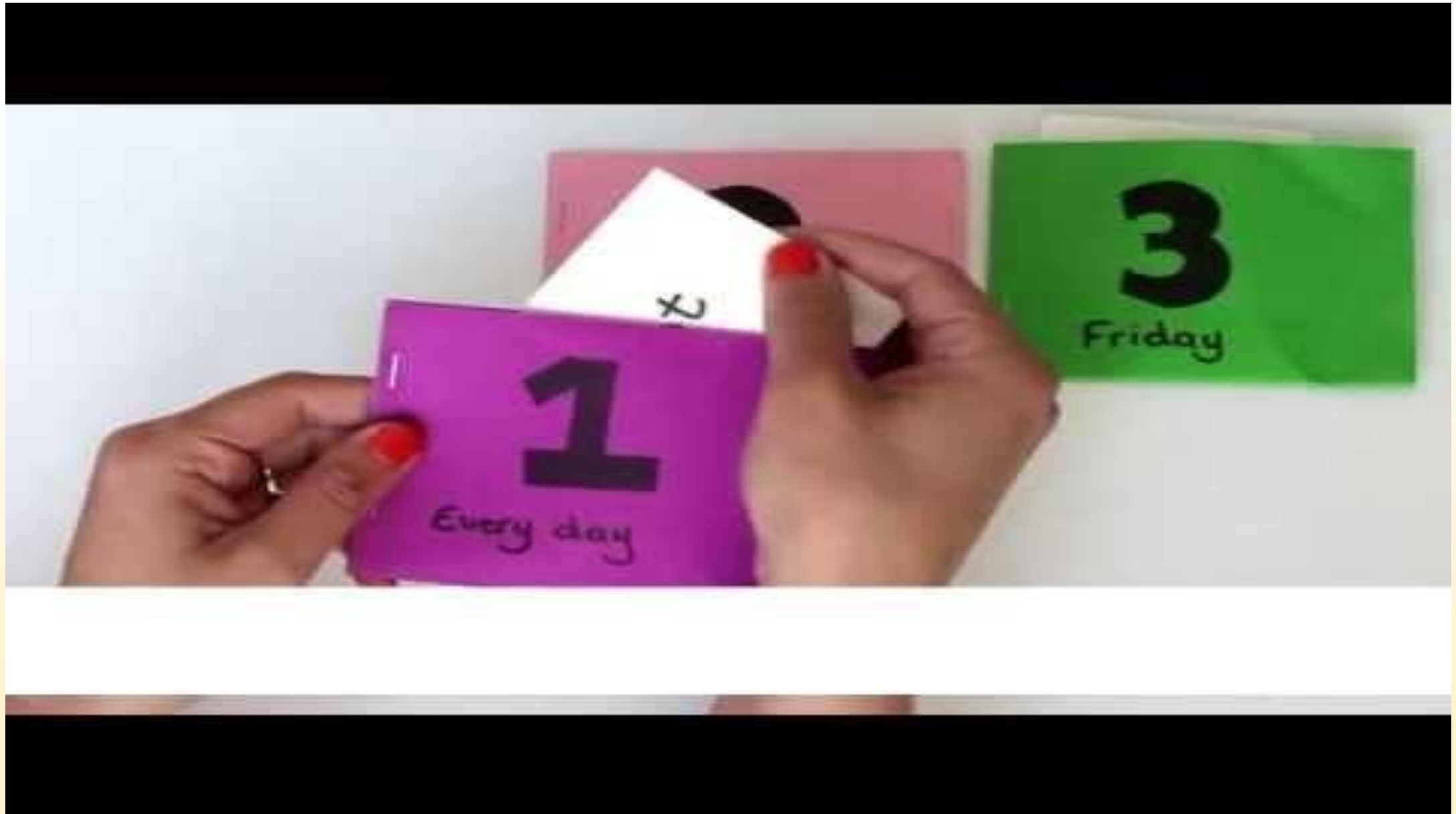
THE 1953 FLOODS
 RISE DISCHARGE
 1953 TUNNEL
 1953 TUNNEL

FLOODING CASE STUDIES: MEDC - TENNESSEE
 BRUCESTER SHIRE - JULY 2007
 ISSUES - High rainfall, River Severn burst its banks
 Flooded at confluence of Severn and Avon
 Development on the floodplain
 PROBLEMS - 3 people died, 350,000 lost access to running water
 Water treatment works closed, materials abandoned on nearby motorway (M5)
 Debate on future of building development
 RESPONSES - RAF rescue helicopters sent to rescue people, Flood relief fund set up to raise money for affected families, Red Cross sent food parcels

THE STUDY OF FLOOD MANAGEMENT
 LOCATIONS DATA - CHINA
 Along the Yangtze River between Shanghai and Hong Kong
 Why was it needed?
 Reduce flooding from Yangtze to history
 IMPACTS - Social - 85% religious movement
 65% of national city protected
 250,000 people will move to new
 Economic - multipurpose projects
 Help some power as turbines
 power stations (off of China's power)
 Environmental -
 100 river dolphins were in the area
 60,000 hectares of farmland
 100,000 hectares of farmland

FLOODING CASE STUDIES: MEDC - BANGLADESH
 Bangladesh is less than 1m above sea level
 Flooded in the Himalayas, monsoon rains
 1.5 million homes destroyed
 77% of land destroyed by floodwater
 2.5 million homeless - affect food supply
 Houses on salt - if sea level rises - affect food supply
 1.5 million homeless - affect food supply
 1.5 million homeless - affect food supply

Flashcards!



- <https://quizlet.com/294055954/gcse-aqa-science-chemistry-flash-cards/>