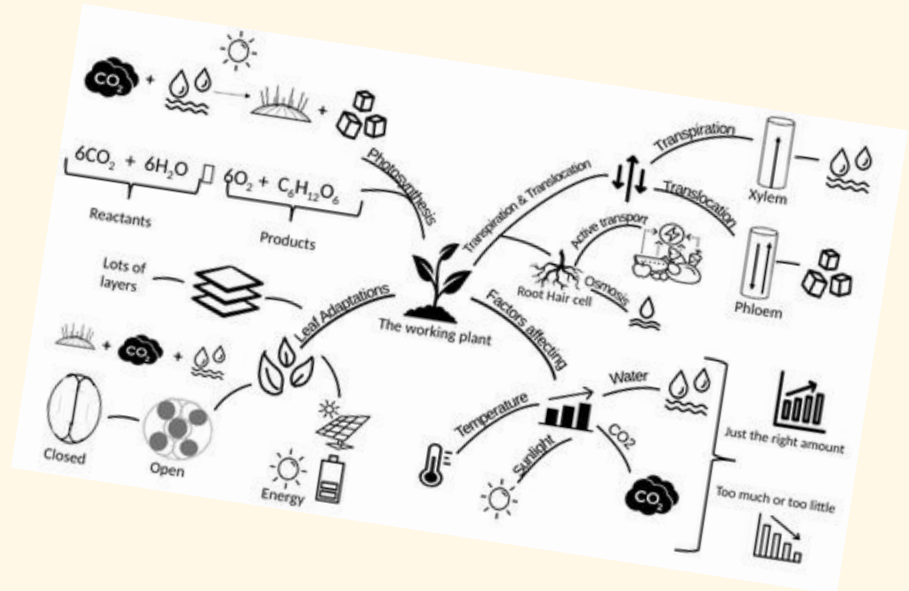
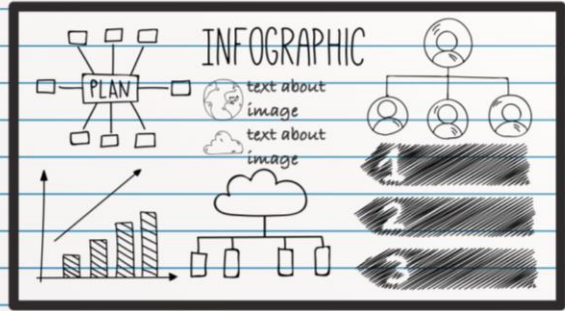
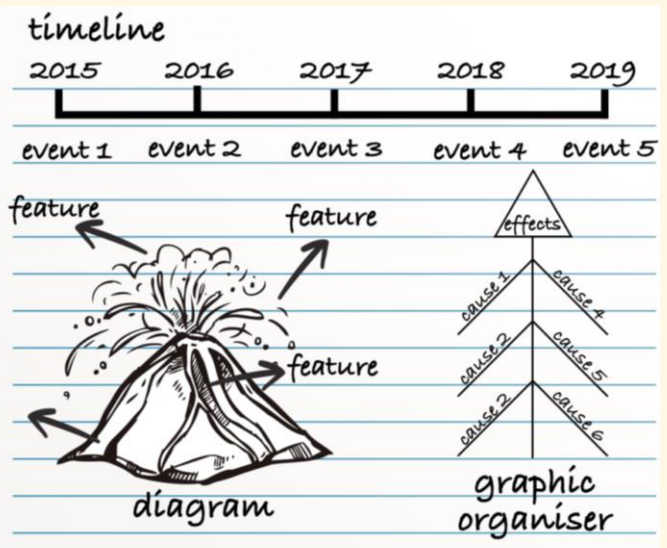
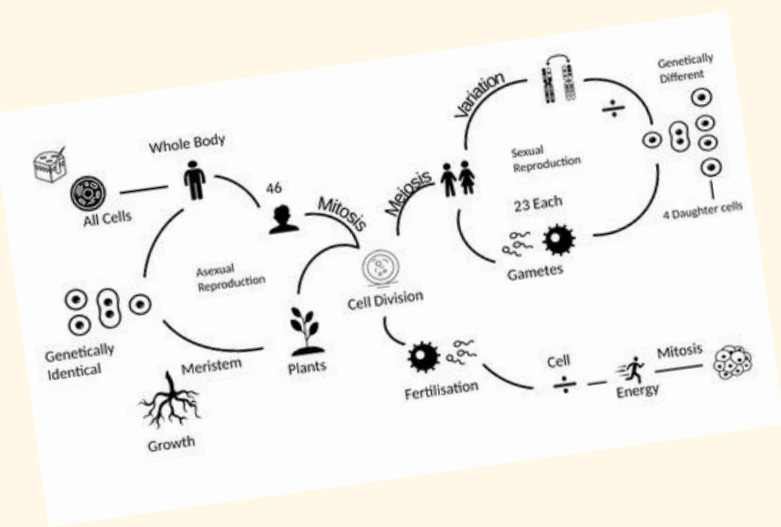


Study Skills – Dual Coding and Tiered Revision.

Why do some people like to use emoji's when they send messages?



Study Skills – Dual Coding and Tiered Revision.

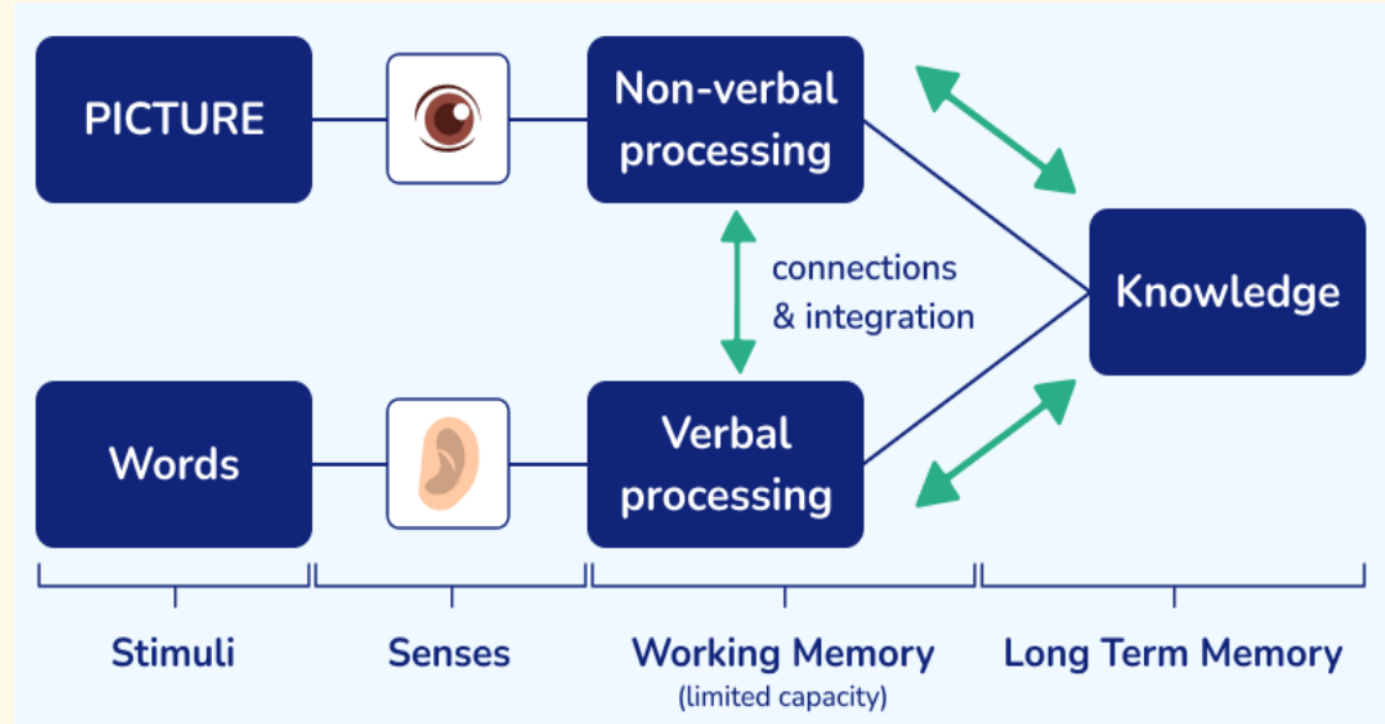


What is Dual Coding?

Dual coding means combining words and visuals to help you remember information better.

Why it works:

- Your brain processes visuals and images differently to the way it remembers text, language and words.
- **Using both strengthens memory** and helps to retain information as the brain processes the knowledge in two different ways

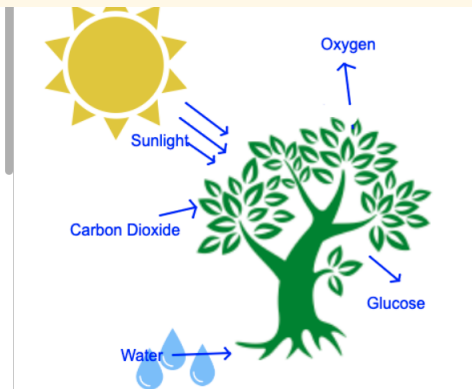


Our brains love connections!

- **Text gives detail.**
- **Images give context.**

The Photosynthesis Process

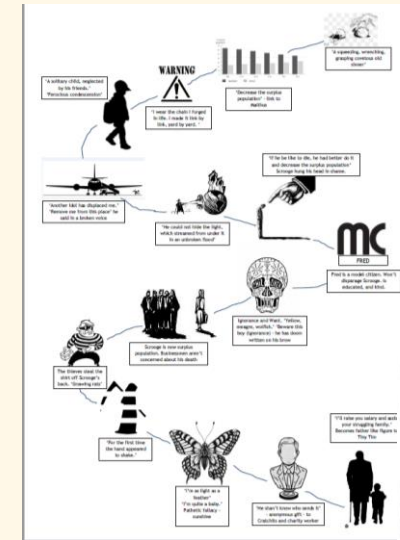
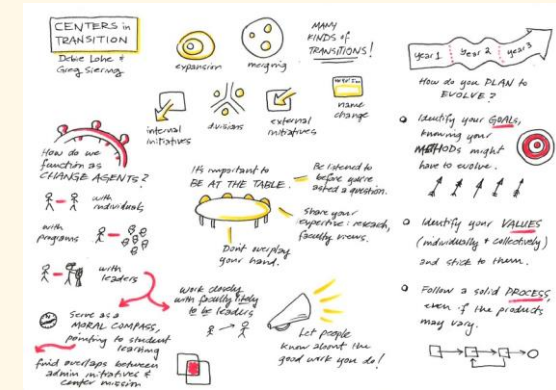
The photosynthesis process uses the sun's energy to combine carbon dioxide and water to form glucose, a sugar. Carbon dioxide enters plants through tiny pores in the bottoms of leaves or by diffusion through cell membranes in the case of algae and protists. Water enters by a variety of means, usually roots, but also by osmosis, which lets water pass through the cell membranes. The sun's energy, absorbed by the green chemical chlorophyll, fuels the chemical reaction that combines the carbon dioxide molecules with the water molecules to form glucose, one type of sugar, and release oxygen as a waste product. The glucose can be stored in fruits, roots and stems of plants and released through the reverse process of respiration, where oxygen is used to break the glucose down into carbon dioxide and water, releasing the stored energy.



How Can I Use Dual Coding to Revise?

Examples by subject:

- Science – flowcharts, atomic structures, process doodles
- English – story maps, character webs, quote doodles
- Maths – annotated graphs, algebra in pictures
- History – timelines, cause–effect diagrams
- Geography – mind maps, infographics
- Languages – picture flashcards, comic strips
- Sport – Stick figure training programmes
- Art – annotated sketch books, artist profiles



Subject	Stimulus Words / Phrases (for sketching)	Example Sketch Idea (for reference)
Science		
English		
Maths		
History		
Geography		
Modern Languages		
Cross-Curricular / General		

You Do!

Some key words from different subjects will appear and you will have to pick one.

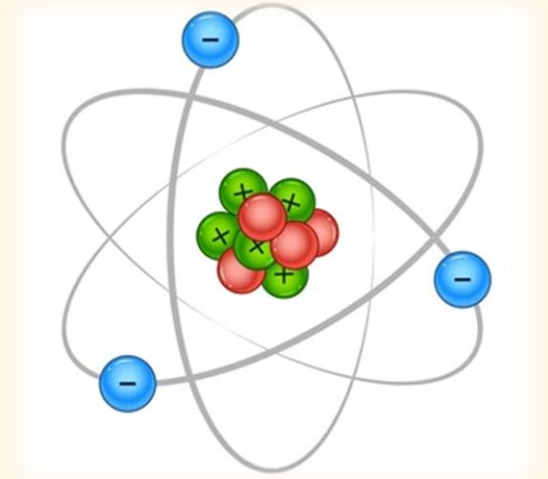
You will have 15 seconds to doodle an image to go with the words to help make it more memorable!

Prizes for the best efforts!

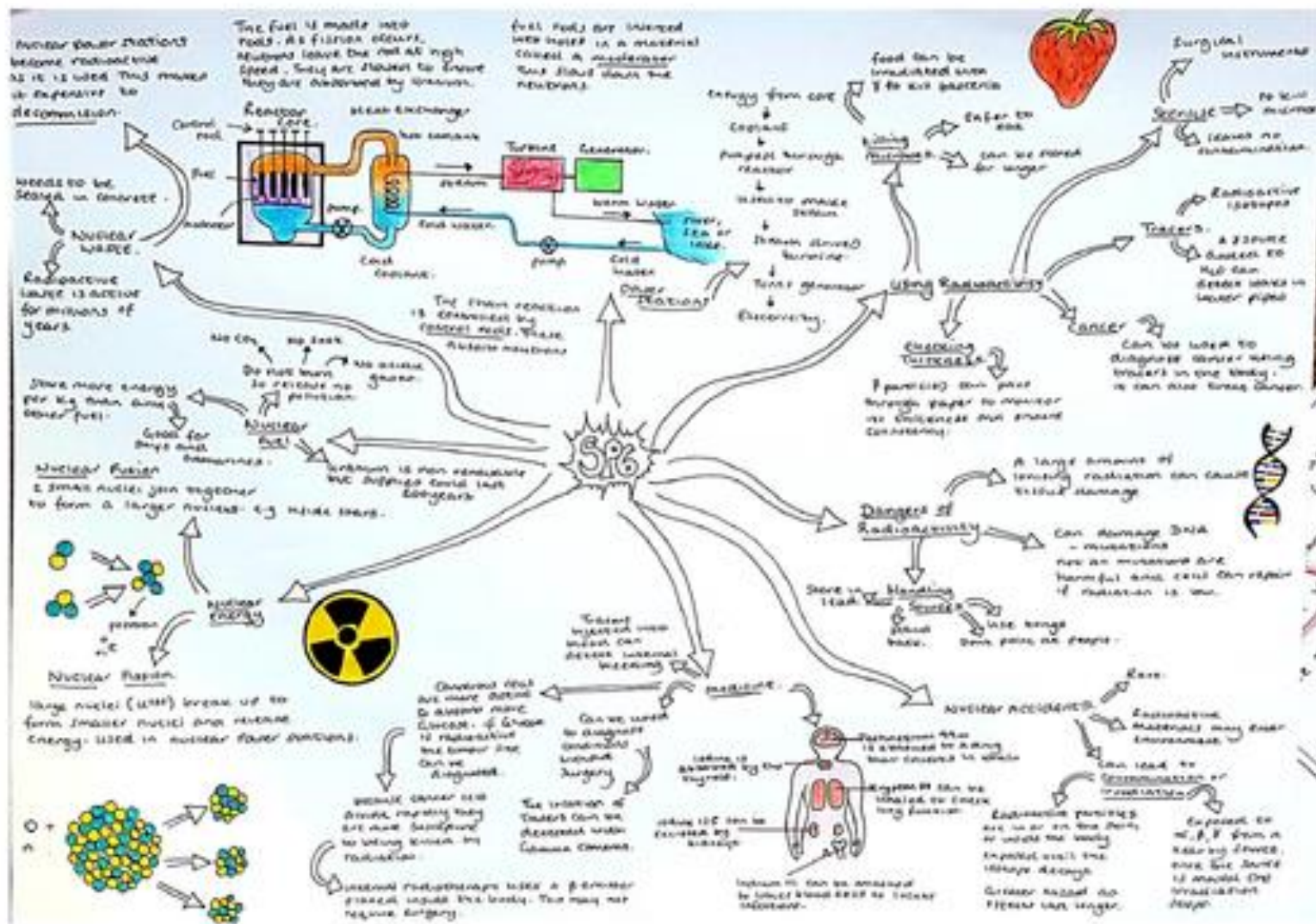




Dual coding also works with images before text. 😊



Next Steps – Tiered Revision



Now you have your dual coded revision notes what next...?

Tiered Revision notes help you to prioritise areas for development.

No one remembers everything first time!



Next Steps – Tiered Revision

**Anything you need help with
in a third colour.**

**Everything added
from revision notes
in a different colour.**

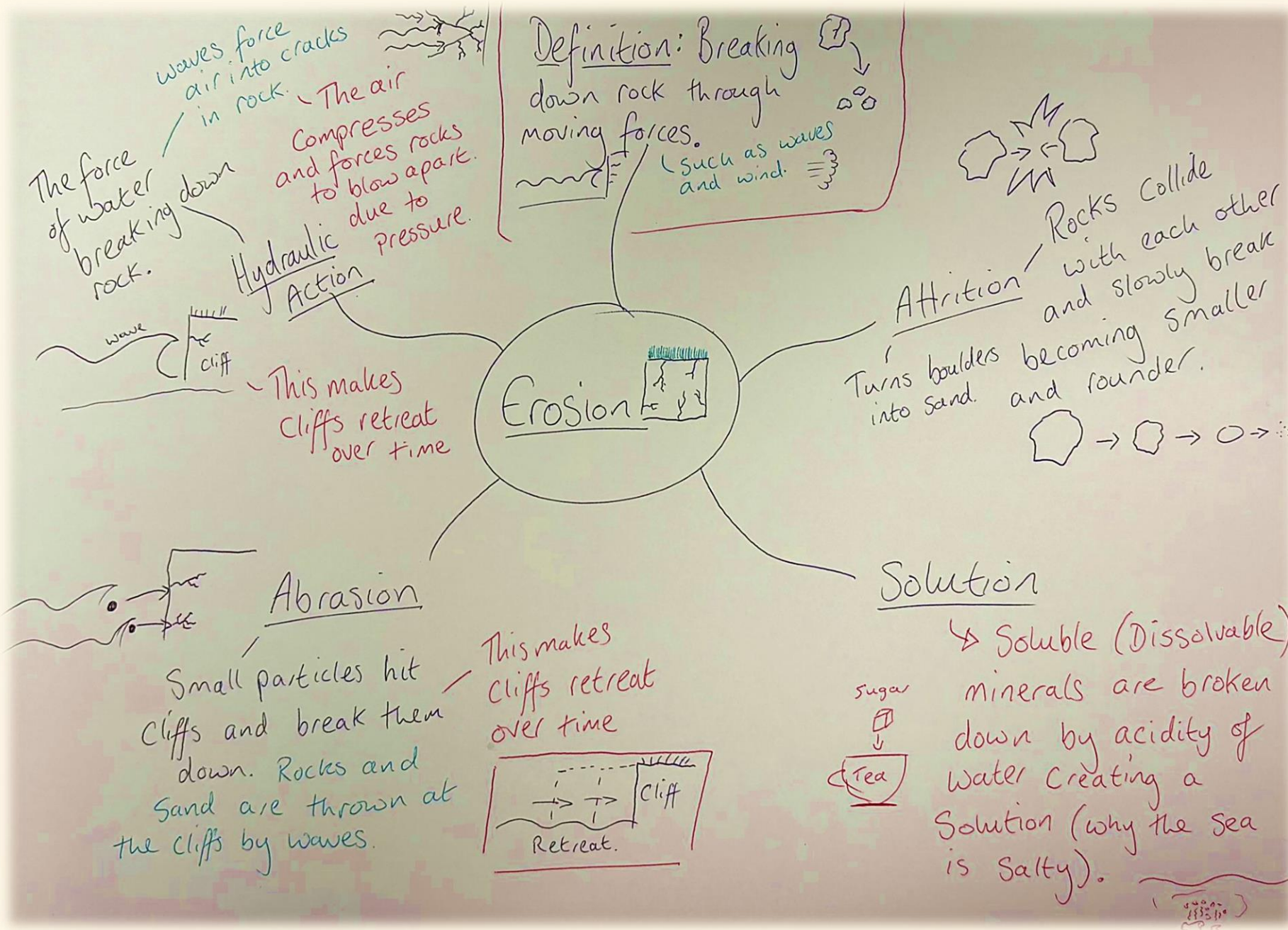
**Everything you
can remember
in one colour.**

When recreating notes this can help you to see where your big knowledge gaps are.

Then when you come to revise again you can give the most focus to **the biggest priority** then recap **old notes** then skim through **secure knowledge** to keep it fresh.

Eventually you can try to recreate your notes entirely from memory.





In this example the student can quickly see that last time they revised erosion, they struggled with understanding topics of **solution, how hydraulic action breaks down rock and cliff retreat during abrasion.**

Because the student remembered everything about **attrition** a quick skim should be enough to keep this fresh.

This will help save time and keep revision efficient and focused.



Quick Tips for Success

- 1. Pick a topic to revise.
- 2. Summarise key points in short notes.
- 3. Add visuals – doodles, arrows, symbols.
- 4. Keep it simple!

- Use both visuals and text.
- Keep drawings simple and clear.
- Review visuals often.
- Use colours, arrows, and symbols.
- Work together – teaching aids learning!

- Dual coding = words + visuals = stronger memory.
- Works for any subject.
- Tools: mind maps, flashcards, diagrams.
- Make revision more creative and personalised

<https://www.youtube.com/watch?v=gj3ZnKIHqxl>

<https://www.youtube.com/watch?v=o9KxVNvOVek>

