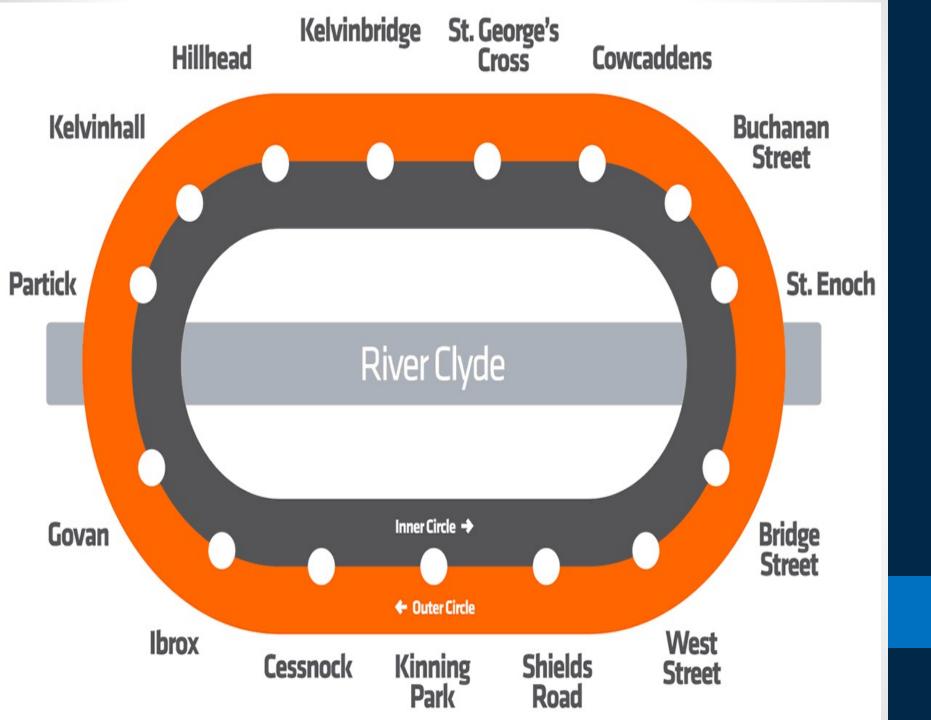


Memory Techniques

Supporting Success at Knightswood Secondary School



Study the following picture for one minute...



<u>Memory is the residue of thought</u>

 If you aren't thinking (or the thinking is too easy) you won't remember it.



Working Memory

Working memory is 'where' you think

It has limited capacity and can't be increased

 If overloaded you don't remember most of what you have been told / read / heard

Long Term Memory

- Long term memory is almost unlimited
- Can be drawn upon and used automatically without any effort
- The more things you store in long-term memory, the more working memory you have to think
- Information only goes to long-term memory with lots of repetition and practice

Working & long-term memory

7 x 7 =

17 x 7 =

1771771 x 7711 =



Long Term Memory

Lots of very complex tasks are already automatic to you **because you have practised them so often**.

You do them without thinking and they don't use up working memory (brain power). These include: walking; talking; reading; eating; times tables; tying your laces; etc.

When you start to drive a car you need lots of working memory. Once you have practised lots you drive without thinking.

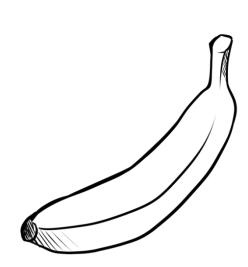




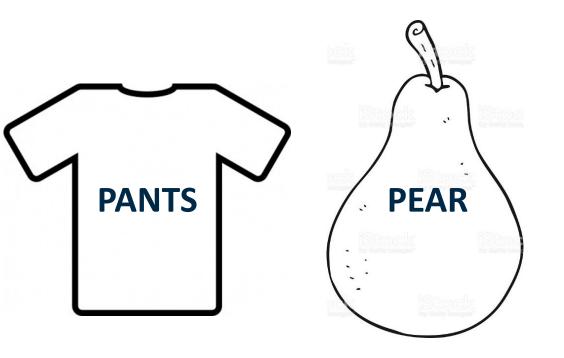
This task will show you how automatic reading has become to you.

Name these 3 objects as quickly as you can?











Developing Long Term Memory

 Recalling details from memory without supporting notes or resources (retrieval) is better than copying / highlighting...

2 minute task

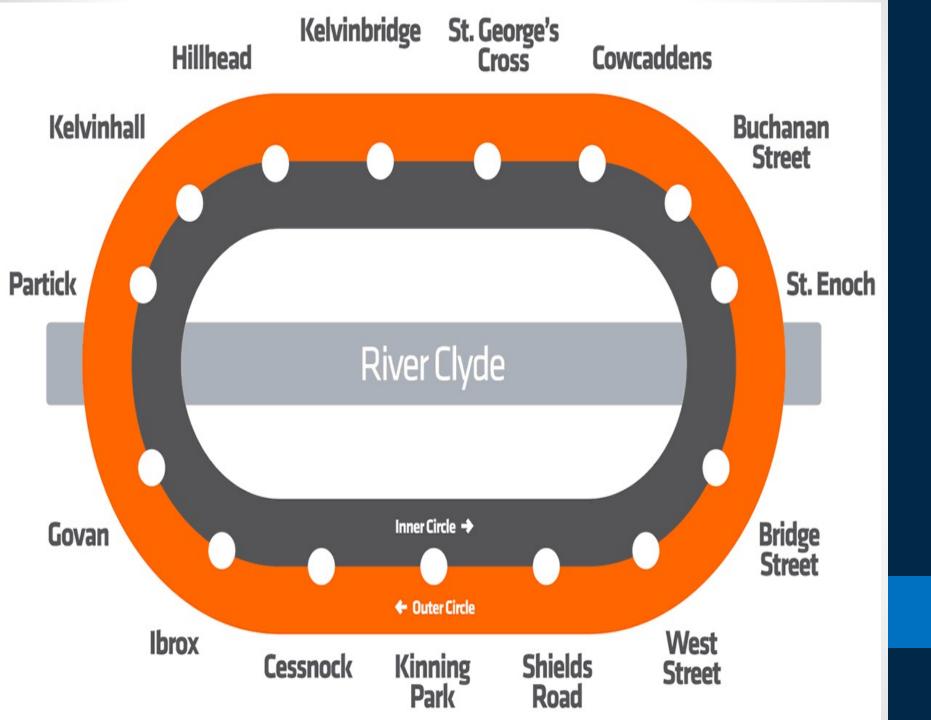


• Now try to remember:

 The number of stops on the Glasgow Subway Line

• The order of the stops

The names of the stops



Knowledge Organisers

A Timeline of Apartheid in South Africa Anti-Apartheid Activists						
1948	1. Na	1. National Party is elected into government and creates apartheid		ela	Lawyer, defendant, prisoner, President	
1952	2. The African National Congress (ANC) launch the Defiance Campaign		2. Winnie Madikizela		South Africa's first black social worker	
1955	3. Mandela is put on trial for treason at Pretoria		3. Walter Sisulu		African in Robben Island prison to 1989	
1960	4. Sharpeville Massacre: 69 South Africans shot and killed by police		4. Chief Albert Luthuli		President of the ANC from 1952-1967	
1960	5. Mandela and ANC burn their passbooks, and 100,000 Africans join in		5. Oliver Tambo		President of the ANC from 1967-1992	
1960	6. The National Party apartheid government ban the ANC		6. Ahmed Kathrada		Indian in Robben Island prison to 1989	
1961	7. Mandela forms Mkhonto we Sizwe, Spear of the Nation, for sabotage		7. Desmond Tutu		Archbishop won 1984 Nobel Peace Prize	
1963-4	8. Mandela is put on trial at Rivonia for treason, violence and sabotage		8. FW De Klerk		President who ended apartheid in 1990	
1964-1990	9. M a	ndela is put in Robben Island prison with Sisulu & Kathrada	MANDELA QUOTATIONS			
1969-1978	10. Mandela's son Thembi and mother die, and daughter Zeni marries		Freedom Charter, 1955	"A free, democratic South Africa belongs to all who live in it, black, white and Indian. Every man and woman shall have the right to vote. The people shall govern!"		
1976	11. Soweto Uprising: hundreds of children shot and killed by police					
1990	12. Mandela is released from prison by FW de Klerk			"Why did we form Umkhonto we Sizwe? What were we, the leaders of our people to do? Were we to give in to		
1993	13. Mandela wins the Nobel Peace Prize		1. Rivonia Trial			
1994	14. M	landela is elected first black President in South Africa's history	Opening	force, or were we to fight it and if so, how?"		
1995	15. South Africa win the Rugby World Cup, held in South Africa		2. Middle	"Africans want to be paid a living wage African men		
POLITICAL VOCABULARY			(20 th April	want their women and children to live with them African		
1. aparth <u>eid</u>		racial segregation of schools, hospitals, parks, beaches, buses	1964)	women want to be allowed out after 11"		
2. segregation		systematic sep <u>a</u> ration			ght against white domination, and I have inst black domination."	
3. gover <u>n</u> ment		the political party with the most MPs in parliament	4. Rivonia	"Freedom is an ideal which I hope to live for and achieve. But if needs be, it is an ideal for which I am prepared to die."		
4. political party		a group organising to win an election to parliament	Trial Ending			
5. oppression		cruel denial of rights	LEGAL VOCABULARY			
6. sabotage		destruction of property, avoiding murder	1. defendants The people charged in a trial			
7. strike		A refusal to work in protest	2. verdict	The decision if the defendant is guilty or not guilty		
8. authorities		the government, state or people in charge	3. sentence	The punishment for the crime if the verdict is guilty		
9. defiance		refusal to obey orders	4. judge	An experienced lawyer who decides the sentence		
10. treason		illegal violence against the government	5. jury		inexperienced people who decide the verdict	

Chunking

Ten Quotations from MacBeth:

- 1. "Stars, hide your fires, let not light see my black and deep desires"
- 2. "He's here in double trust: first, as I am his kinsman and his sucject, strong both against the deed."
- 3. "Vaulting ambition only overleaps itself."
- 4. "Is this a dagger which I see before me, the handle toward my hand."
- 5. "Hear it not, Duncan; for it's a knell that summons you to heaven or hell"
- 6. "A voice cried 'sleep no more! MacBeth does murder sleep"
- 7. "Will all great Neptune's ocean wash this blood clean from my hand."
- 8. "I am in blood stepped in so far that, should I wade no more, returning were as tedious as go over"
- 9. "Out, out, brief candle" Life's but a walking shadow"
- 10. "I bear a charmed life, which will not yield to one of woman born."



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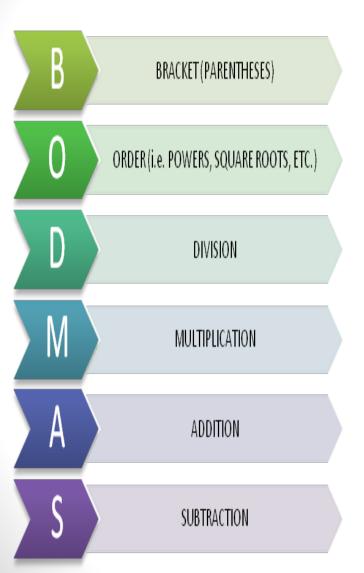


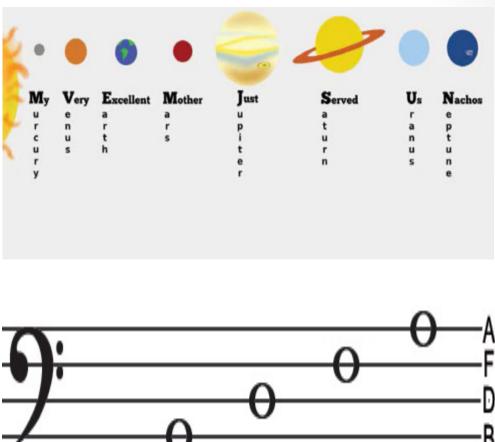
Ten words are easier to remember than ten quotations!

- **1.** Stars
- 2. Trust
- 3. Ambition
- 4. Dagger
- 5. Hear
- 6. Sleep
- 7. Neptune
- 8. Blood
- 9. Candle
- **10.** Charmed



Mnemonics





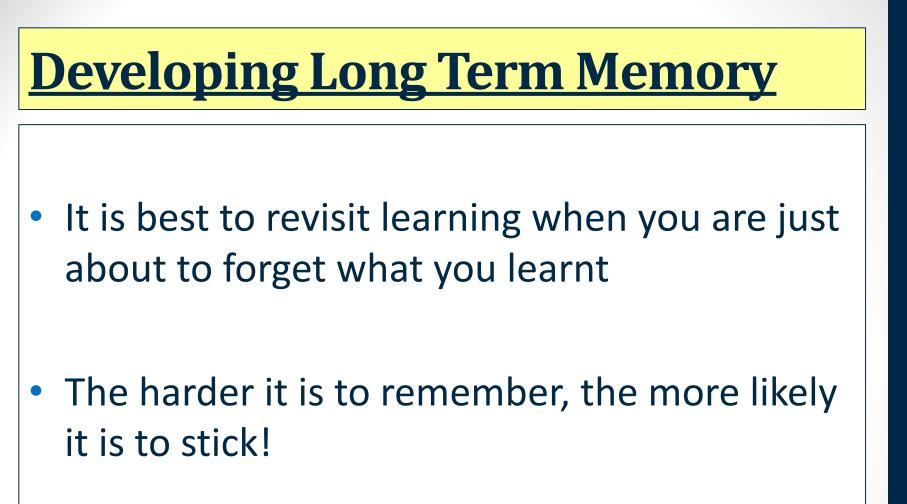
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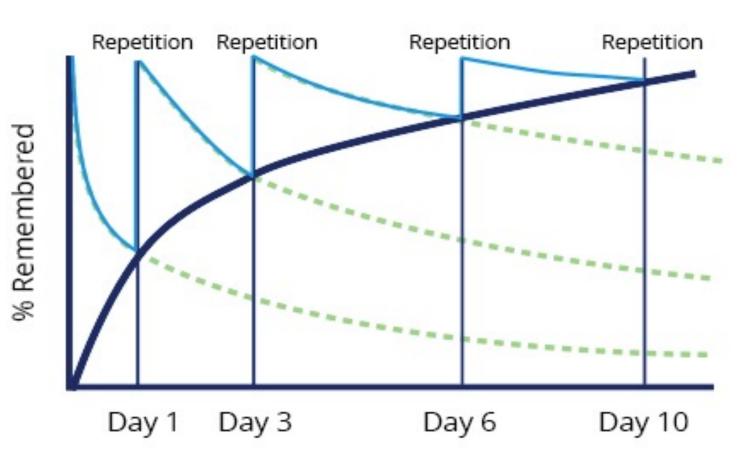
Grizzly



This is known as distributed or spaced practice.

Developing Long Term Memory

Spaced Repetition





For those who would like to look in to this more, some helpful resources are noted below:

The Learning Scientists: (www.learningscientists.org)

Inner Drive: (<u>www.innerdrive.co.uk</u>)

Learning How to Learn: a guide for kids and teens