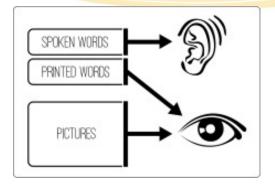
1. Reducing Cognitive Load



Strategies include:





Multimedia Learning



Dual Coding







Use of Icons

a.Small Steps

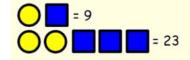
		Set 1		Set 7
	Lesson 1 Identify questions that require you to solve simultaneous equations Solve simultaneous equations through	that require you to solve simultaneous	Lesson 1	Be able to work out the value of shapes or images when presented in a pair of equations Work out the value of shape or images when presented as a group of equations Understand what is meant by a simultaneous equation
		elimination (addition		Be able to use bar models to identify the difference between two equations
		,		Be able to identify the difference between two equations algebraically
				Solve a pair of simultaneous equations by calculating the difference between the two
				Be able to find the value of both unknowns in the equations by substituting and solving
	Solve simultaneous equations that require manipulation first	Lesson 3	Recall how to identify the difference between two equations algebraically and be able to determine the unknown values	
				Be able to solve simultaneous equations where the signs are both negative of the same coefficient
				Be able to solve simultaneous equations where the signs are different of the same coefficient

Task 1

Work out the value of the circle and the square



Challenge:





2.
$$3a + b = 5$$

 $4a - b = 2$

4.
$$9a + 3b = 19$$

 $6a - 3b = 11$

5.
$$3a + b = 6$$

 $4b + 3a = 15$

6.
$$6a + 2b = 5$$

- $6a + 3b = 15$

7.
$$5a + 3b = -4$$

 $9a + 3b = 0$

8.
$$11a + 2b = 7$$

 $7a - 2b = 11$

9.
$$8x + 6y = 36$$

 $2x + 6y = 27$

10.
$$7x + 6r = 124$$

 $-7x + 6r = -16$

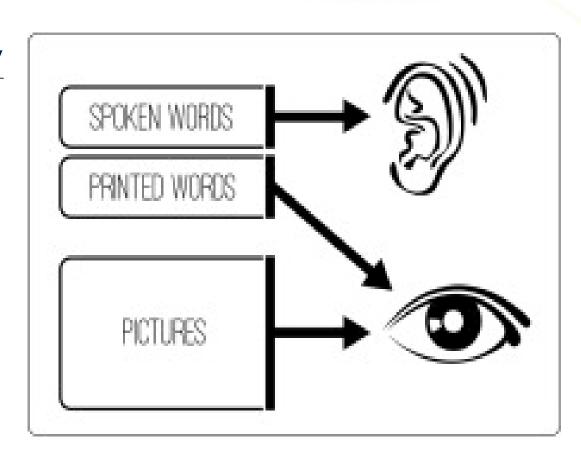
b. Multimedia Learning



 Remove anything <u>unnecessary</u>

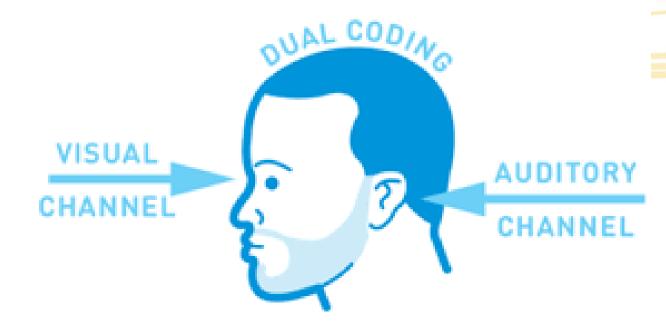
Add information as you <u>explain</u> it

 Optimise learning with <u>pictures and</u> <u>spoken words</u>



c. Dual Coding





(Paivio, 1971)

- Combining words with images
- Helps to leverage greater working memory capacity

Same image to represent an idea

SJB

Porphyria's Lover

As we read the poem and watch the video, think about:

- 1. Who is the speaker?
- What relationshi presented in the
- How does the sr towards the wor do they focus or
- 4. What shocking ε happens in the μ

https://www.youtube.com/watch



Where are the errors? Are there any?

- 1. The speaker is an insane man.
- 2. The relationship is a jealous familial love that now distant.
- The speaker admires the woman's looks and is bo obsessive and possessive
- 4. The speaker "strangled her" with his proposal.

https://www.youtube.com/watch?v=dSIm1KYZ





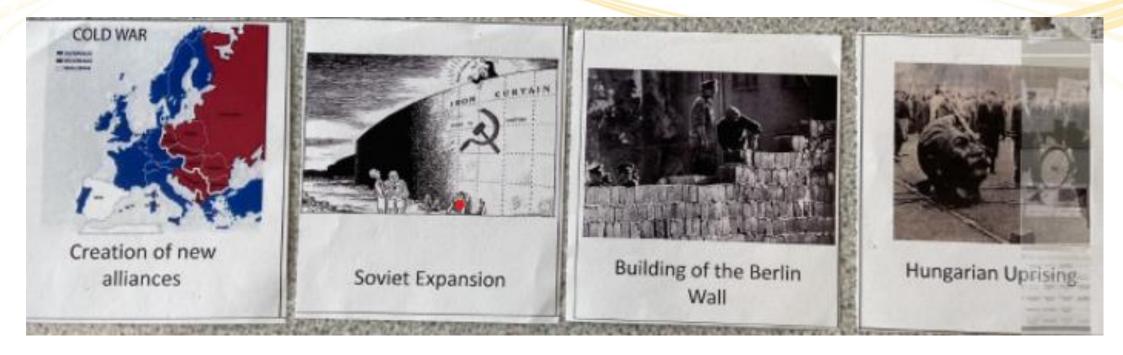


How would you summarise the relationship in this poem?



Cartoon strips/timelines





Cartoon strip to aid comprehension

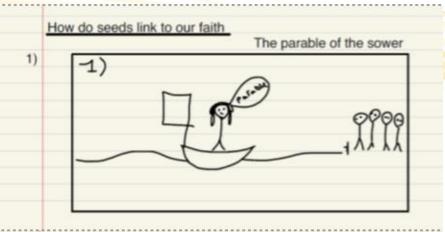


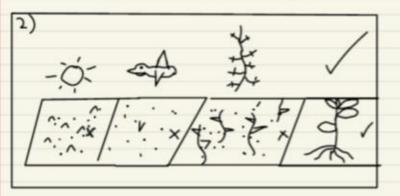
Describe the <u>four</u> types of seed described in the <u>parable of the sower</u>

TASK: I am going to read Mark 4:1-9 to you.

As I am reading, you need to draw what you hear. Try to include the following:

- 1. The location
- 2. The faces of those listening to the parable
- 3. The four types of ground that the seed falls on



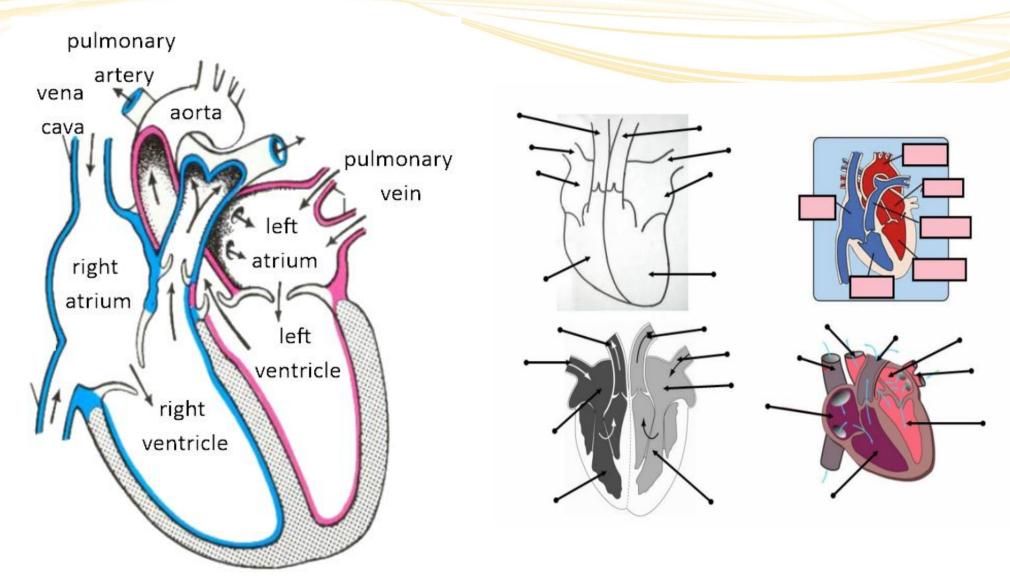


The parable of the sower describes a man who sows seeds in a field. The seeds fall in four different places: path, rocky land, thorns and good soil

I think this parable was so impactful to the people listening to Jesus because it was teaching them that they also need to be in the right state of mind and thinking positively about there faith so that they can grow in there faith

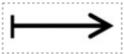
Labelling diagrams





Using images to aid problem solving





Displacement, s, is shown as an arrow with an open arrowhead. The perpendicular line indicates the zero of the measurement.



Initial and final velocities, u and v, are shown as arrows with solid arrowheads. The length indicates the magnitude of the velocity.



Acceleration, a

Problem: a motorcycle accelerates from rest at 0.8 m/s² for a time of 6.0 seconds. Calculate (a) the distance travelled; and (b) the final velocity.



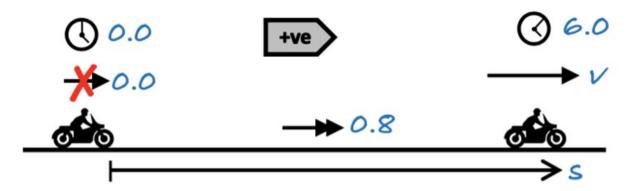
Tin



Zero veloc



The (arbitrary) positiv



(a)
$$s = ut + \frac{1}{2}at^2$$

 $s = 0 \times 6.0 + \frac{1}{2} \times 0.8 \times 6.0^2 = 14.4 \text{ m}$

$$v = u + at$$

 $s = 0 + 0.8 \times 6.0 = 4.8 \text{ m s}^{-1}$

d. Use of Icons

















































