



Together we give children the roots to grow and the wings to fly

Responsibility Resilience Independence Curiosity Respect Kindness Honesty Self-belief

Memory at Pinewood



Implementation: We will revisit and practise what we have already learnt.

We will use dual coding as a technique to support memory skills.

We will not overload the working memory.

Impact: By revisiting previous topics (spaced retrieval) Children are committing their learning to their long term memory.

Using dual coding supports children in recalling learning from their working memory.

Retrieval practise enables children to recall what they have learnt in their working memory



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Memory at Pinewood - where we started, where we are now



Mar 2021 – review of developing memory training in school, what's going well? Support for future steps in developing memory skills and reducing cognitive load.

Jan 2021 – developing memory skills training. Assessing what we are doing and next steps.

As part of our Oct INSET we reflected how we were using different memory strategies in our teaching and learning. We needed refresher training following the summer term lockdown and the autumn term responding to lockdown, Catch up and blended learning.

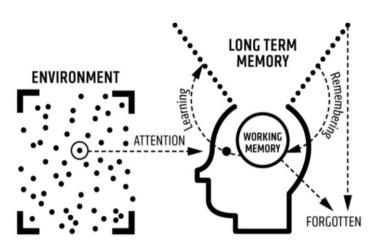
In July 2020 we researched knowledge organisers and planned these for our forthcoming Autumn term topics.

We started thinking about the working memory and the cognitive load in Feb 2020. We looked at 6 strategies to support memory training including dual coding and retrieval practice.

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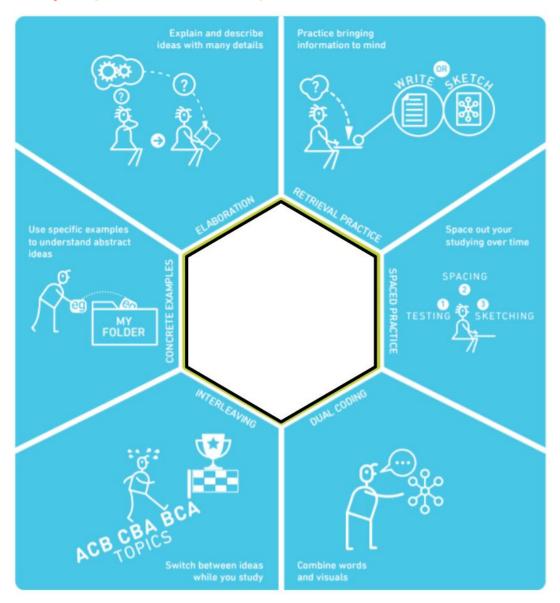
Memory at Pinewood



We have to revisit what we have learnt in our working memory to ensure that it is not forgotten.

How we can develop memory skills:

- o Dual coding
- Worked examples
- o Retrieval practice
- Spaced practice
- o Interleaving
- o Elaboration



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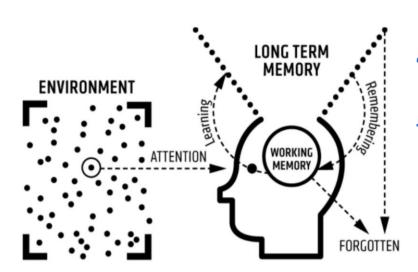
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Memory at Pinewood

To develop memory skills we want to 'lock learning into the long term memory'.

We do this by using a range of these strategies:

- Dual coding using a combination of pictures and text
- Worked examples modelling and using concrete examples to work through with children
- Retrieval practice practicing recalling previous learning
- Spaced practice revisiting previous learning at a later date
- Interleaving switching between ideas and topics as we learn
- Elaboration explaining and describing ideas/ methods with more detail



By revisiting what we have learnt in our working memory we are committing it to our long term memory.

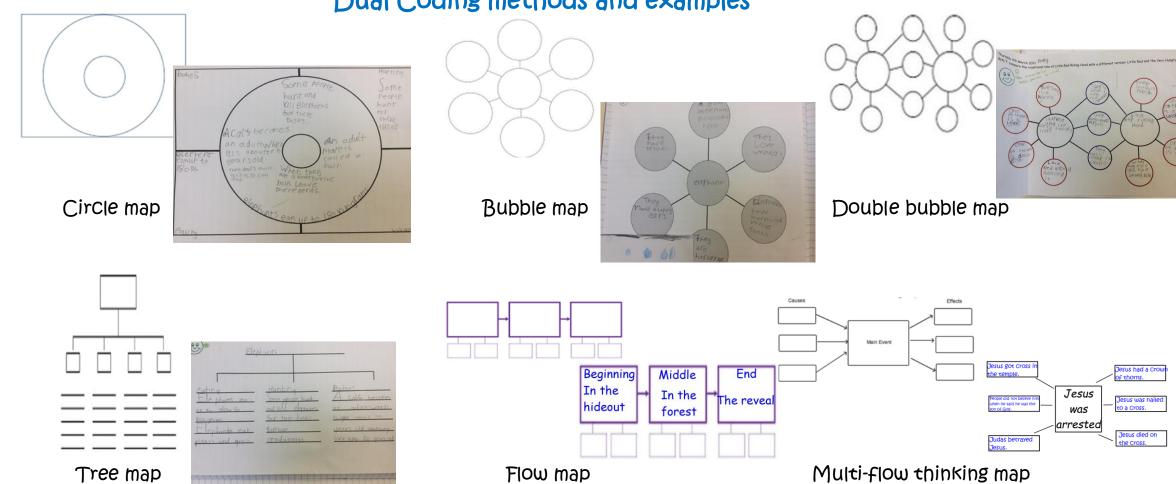


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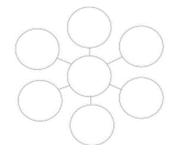


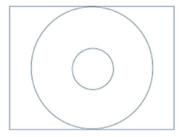
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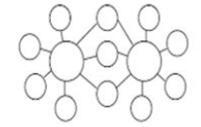
When we will introduce different types of dual coding:

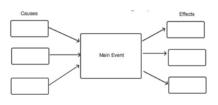
Circle maps at start of all topics

EYFS: circle maps (topic work and begin to show organisation into 4 corners) 2 circle maps with gap in the middle to compare which will lead into double bubble map later in school, bubble maps, tree maps for writing, sequencing map for understanding of the world

Year 1: Circle map, bubble map, tree map, sequencing flow Chart (model through stories)

Year 2: All above plus double bubble map for Character Comparisons, multiflow thinking map for Causes-main event-effects





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Worked examples:

- > Show 3 answers which is right?
 - which is the best answer?
 - why?
- > Order 3 pieces of writing which is the best? The 2nd best?
 - why?
- > Show step 1 of a problem what do I need to do next?

Which of these sentences is the best?

Lila felt the rain on her foot then her face she had done it

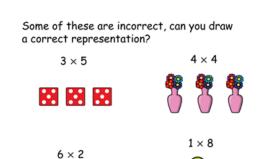
When Lila felt the rain on her face she cried with joy.

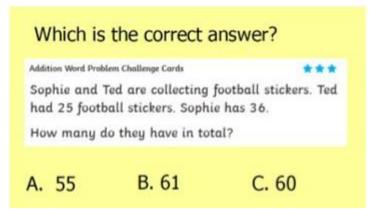
The rain splash on lilas face which made her smile.

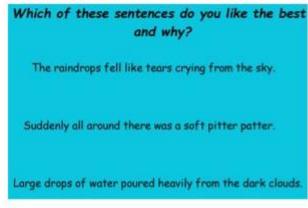


Step 1: draw the tens and ones

Step 2:









Which is the correct answer?

Addition Word Problem Challenge Cards

Sophie and Ted are collecting football stickers. Ted had 25 football stickers. Sophie has 36.

How many do they have in total?

A. 55

B. 61

C. 60

It is very _____ in church.

I fell _____ the chair.

I ____ my race yesterday.

I have a bag ___ apples.

There are ____ a lot of sweets.

I have ____ dog and two cats.

Pinewood Infant School and Foundation Unit

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Memory at Pinewood

Retrieval Practise

Quizzes
Multiple choice questions
Odd one out
True/false

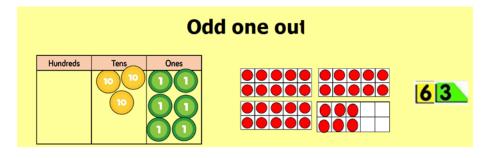
Cloze activity

Draw or write what you know about.....

Tell your friend 5 things about....

Partially completed concept map

Order events (story or real events)



Can you think of 5 facts from yesterday's history lesson about Grace Darling?



True or False

3 + 7 = 10 13 + 6 = 20

8 + 8 = 15

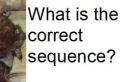
1 + 9 = 10











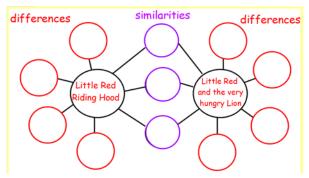




- 1. This number is 20+3
- 2. This number is 10+14
- 3. This number is made up of 2 tens and 3 ones

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Comparison of a new story with a previously studied story.

| Correct the n | nistakesl | |
|---------------|-----------|-------|
| | coud | hear |
| | Miss | hous |
| | thair | verry |
| | wold | peple |
| | freind | shud |

Spellings previously spelt incorrectly.

Memory at Pinewood

Spaced practise

Make connections to previous learning.

Previous topics/ books

Topics from previous years

Previous mini topic eg. Science topic

Spellings/ key words - spaced practice in spelling

Quizzes

Homework tasks

Big book – use to revisit previous stories/ topics

Assemblies

WALT: Make 2D or 3D shapes

Warm up your maths brain by reminding yourself of 2D/3D shapes and playing some 2D and 3D memory shape games with Mrs Cooper. Follow the youtube link:

https://youtu.be/mkBVCGJEiKM



What is a homophone?

How many can you remember?

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| Africa topic | | Water topic | |
|--------------------------------|---------------------------------|--------------------------|--------------------------------|
| The leopard's drum | narrative | Bog baby | Recount - diary |
| African animals | Non- chronological report | The storm whale | instructions |
| Lila and the rain | poetry | Song of the river | Recount - letter |
| Little red and the hungry lion | narrative | Grace the lighthouse cat | narrative |
| | | Grace Darling | Non chronological report |

Memory at Pinewood

Interleaving

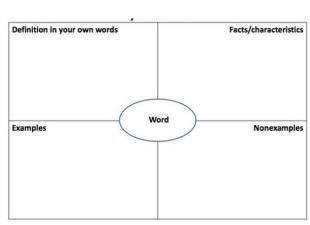
Mixes the practice of several related skills Eg. place value, addition, subtraction - narratives, poetry, non-fiction

Elaboration

Explaining why or how

We can use lots of strategies already mentioned eg. True or false, odd one out, multiple choice

where the emphasis is on explaining why and how we know



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Memory at Pinewood

What does memory look like at Pinewood?



Memory games

A range of dual coding methods

Visual lesson starters for foundation subjects

Daily retrieval practice

Consolidation of learning

Connections to previous learning

End of the week quizzes

Guided practice/ modelling

Memory techniques identified on teachers' planning



Staff continuing Professional Development

Termly staff meetings to reflect, share good practice and cascade ideas and training to all staff.

Monitoring of memory skills used throughout teaching and learning through planning scrutiny.



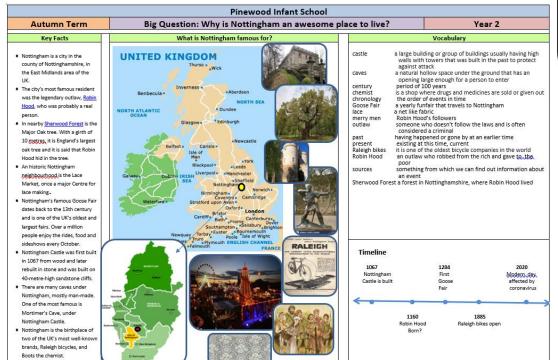
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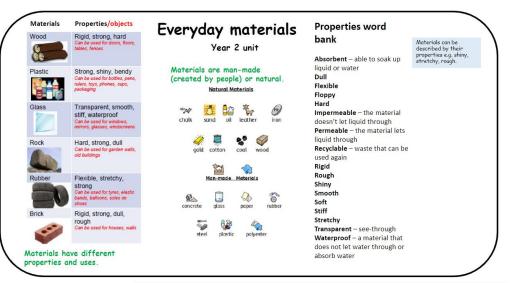
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Knowledge organisers Memory at Pinewood

As part of our working practice on memory we researched and trialled making and using knowledge organisers for different topics and some specific subjects. Following the trial across school we decided to prioritise the methods previously described with the intention of reintroducing knowledge organisers in the future where they are particularly required to support specified topic areas.







Materials word bank

Material - the stuff an object Man-made - materials created and made by people Natural - something that has come from animals, plants or Particles - tiny bits of matter that make up an object Properties - the qualities that belong to something to make it

There are three states of matter called solid, liquid and gas





