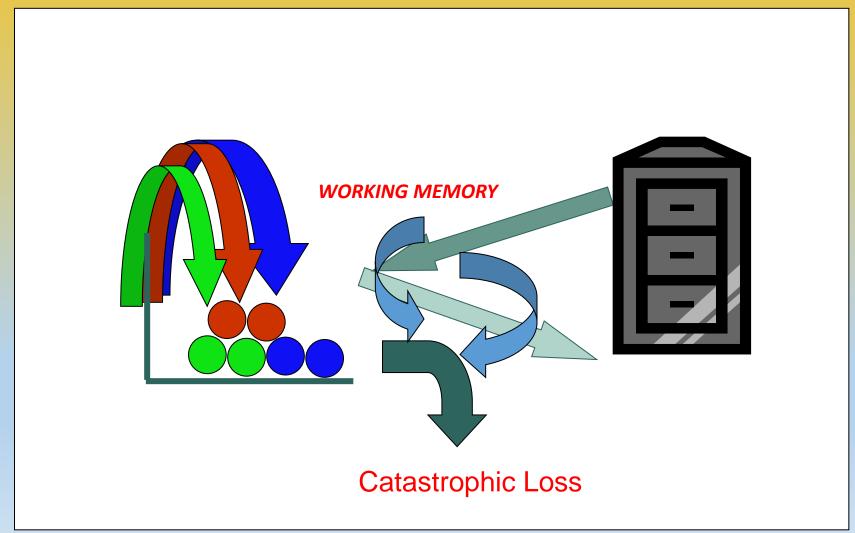
10 Practical ideas

and why

David Crabtree

Working memory





Maps

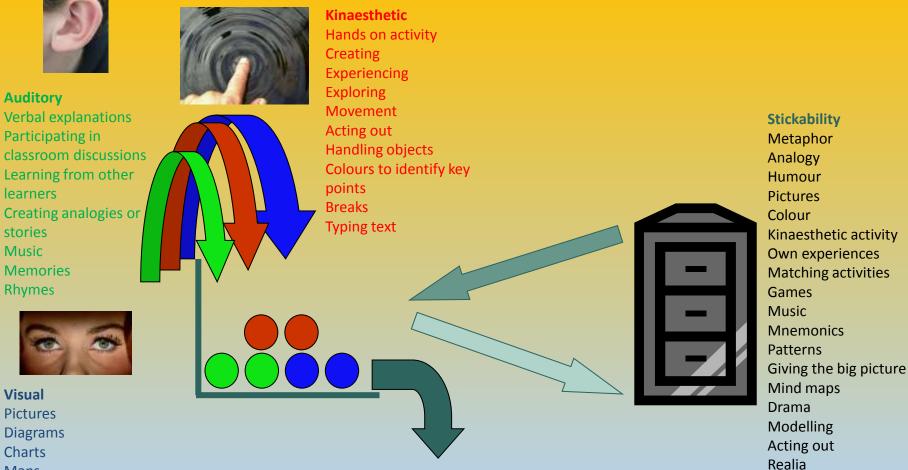
DVDs

Illustrations

Photographs Mind maps Colour

Teacher's body language

USE OF MULTI SENSORY PROCESSING



Relevant disposal and lack of clutter

7. Build in Multisensory Processing and Stickability Strategies

Assess for learning at the end of SUCCESS

every step

6.

4. Create light bulb moments which make use of pupils own self-realisation

2. Each lesson as a Learning Journey

It has a beginning and end with a step-by-step focus on pupil learning, planned interventions and the provision of targeted differentiation.

1. Learning Route Map

Puts learning into context. Allows learners to see direction, relevance, progress and revise. They can look back as well as look forwards to see how things fit together.

5. Teach only one thing at a time

3. Identify the main elements for Stickability ? **Build in Stickability**

bav ib duts omed obcornin adowl



David put some popcorn in a bowl

Dyslexia

A difficulty processing written language

Sequencing/working memory/decoding?

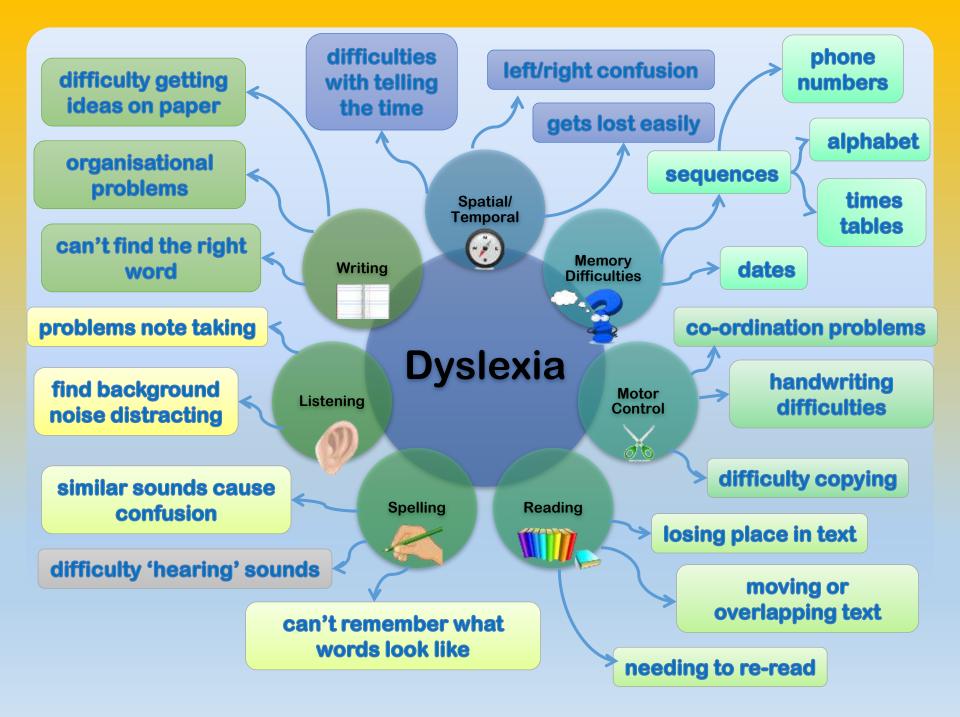
- discriminating or 'holding' sounds
- confusing or omitting sounds when spelling

Auditory processing?

Visual processing? Sequencing? Speed of processing? Catastrophic loss Lets try some exercises to show us what having dyslexia means...

• Say the colour NOT the word....









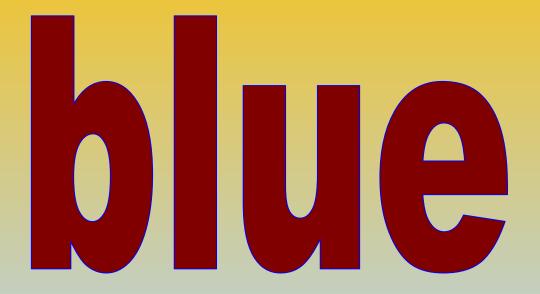




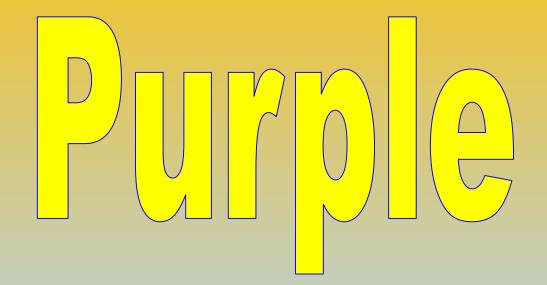


orange orange















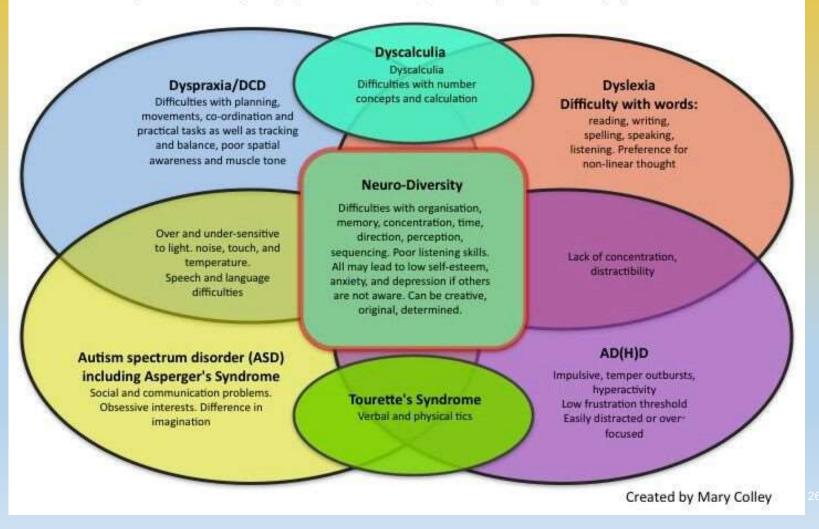




Neurodiversity

The Make-up of Neuro-Diversity

This is a document for discussion, concentrating mainly on the difficulties of those with neuro-diversity. It must however be pointed out that many such people are excellent at maths, co-ordination, reading etc. We are people of extremes.



'In terms of specialised functions there is an important difference between the left and right halves of the brain' Neuropsychological Treatment of Dyslexia D.J. Bakker

Left brain hemisphere

- Language
- Facts
- Analysis
- Time orientation
- Sequencing
- Structure
- Mathematics
- Listening

This is true for the majority of people.

Right brain hemisphere

- Pictures
- Feelings
- Humour
- Artistic
- Musical
- 3-D visual/spatial
- Patterns
- 'Whole picture'

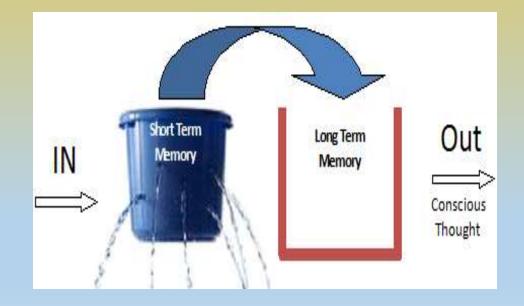
Working memory and behaviour

- Being "easily distracted", "forgetful", and "off-task", is an exterior sign of the shutdown of the nerve impulses inside the brain responsible for working memory.
- Much so-called poor classroom behaviour is the outcome of working memory capacity being over-stretched during the lesson.
- In such a way, the minute differences in working memory from one child to another are massively magnified on a daily basis

Working memory

- Working memory acts as a kind of "holding area" for temporary recall of the information which is being processed at any point in time e.g. classroom activity
- Working memory holds a small amount of information (typically around 7 items or even less) in mind in an active, readily-available state for a short period of time (typically from 10 to 15 seconds, or sometimes up to a minute).
- Working memory links into a "hook" in long term memory to help "place" the new memory in with other memories and be stored
- Working memory supports speed of processing across the "cerebral hemispheres"
- Working memory has been shown to be important for successful classroom learning.

One important function of the brain is to shed input



Implementing the social model for accessibility and engagement

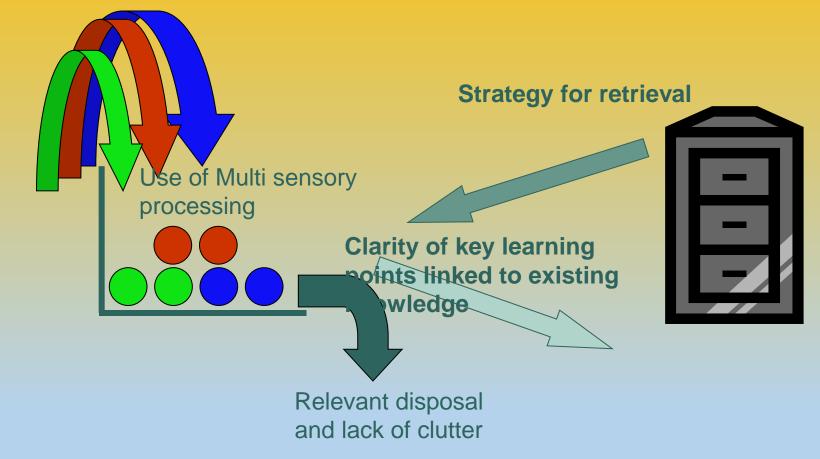
Medical Model

Support agencies Social workers Occupational therapists Educational psychologists special schools Medication

Social Model

Child centred approaches Start from individual strengths Focus on access to curriculum Integration for the benefit of the individual and all learners

How do we help neurodiverse learners



10 Top tips to Inclusion

- Celebrate
- Be clear
- Link to existing knowledge
- Remove clutter
- Use multisensory approaches

- Scaffold
- Differentiate
- Ensure the lesson is accessible for all
- Assess for learning
- Encourage the learner VOICE (the learner is at the heart of everything we do)

Multisensory learning







ONE CRITICAL INTERVENTION

Reduce 'catastrophic' loss Assess for working memory Put into place <u>whole class</u> strategies to support working memory Would help neurodiverse learners Would benefit all learners

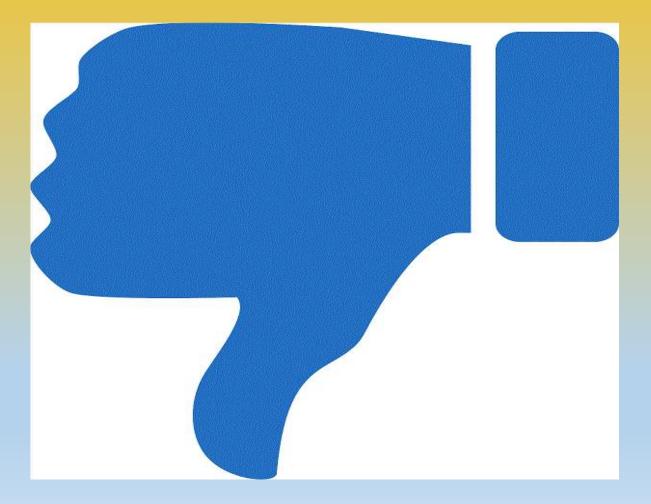


The laminated blue thumb (Working memory)



On task

The laminated blue thumb



I am not too sure

Check Sheets



Provide students with check sheets for tasks. This gives them something they can refer back to as they progress. It is a means for them to keep track of where they are at and to know what they still have to do.

A particularly good use of check sheets is when students are doing written work.

In this case, the check sheet will help students to keep track of what they have done and where they are going, but it will also act as a tacit guide demonstrating how they should structure their work.

Listening Frame (Scaffolding)



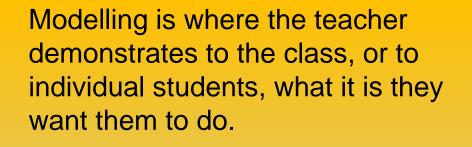
Create a listening frame for students who struggle to make notes.

This could be a worksheet with a set of sections on it, each one headed by a question, statement or category.

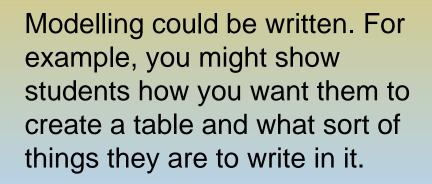
The student can then use this to make notes. The sections will help them to order the information they receive. This will eliminate a thinking process for them, thus allowing them to concentrate exclusively on listening and writing.

In essence, a listening frame does a bit of the work for the student, making life easier for them.

Modelling



Modelling could be physical. For example, you might walk through the steps involved in an envoys task.



Modelling could be oral. For example, you might have a model discussion with a pupil and then ask the class to get into pairs and have their own discussions.



Keyword Display



A good way to help students get to grips with keywords is to display them in your room. Here are five ways you might do this:

- A list of keywords and definitions.
- Keywords accompanied by relevant images.
- Sentences in which the key words are being used.
- Key words in a table with synonyms and antonyms.
- Get your class to make collages or posters of keywords and display these.

Supporting Writing – a 5 stage model

generate ideas
sort ideas into themes
organise the themes
sequence the themes into paragraphs
rehearse the plan by talking it through

The key to successful learning is the ability to organise thoughts. We teach you how to do it visually.

Supporting Writing – Generating ideas

DUMP: GENERATE IDEAS

- Oump —or brainstorm— ideas about the topic
- Emphasise "get it out" not "get it right"



Supporting Writing – Sorting ideas



Supporting Writing – organise ideas

MAP: ORGANISE IDEAS

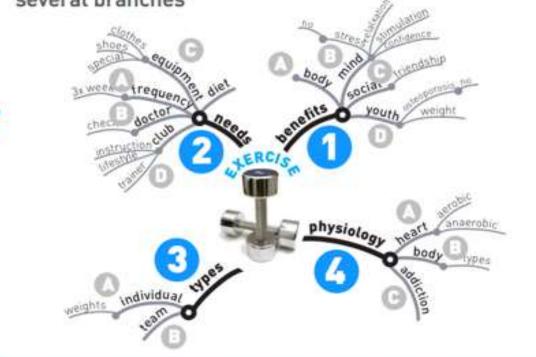
- Organise the groups of words hierarchically
- Find the main words to label the main branches
- Find the next level of words (smaller branches)
- Continue until all words are organised
- Add more words too



Supporting Writing – sequence

SEQUENCE THE PARAGRAPHS

Put the branches into the order you will use them
 Each main branch can be a paragraph or section of several branches



Supporting Writing – rehearse

REHEARSE THE COMMUNICATION

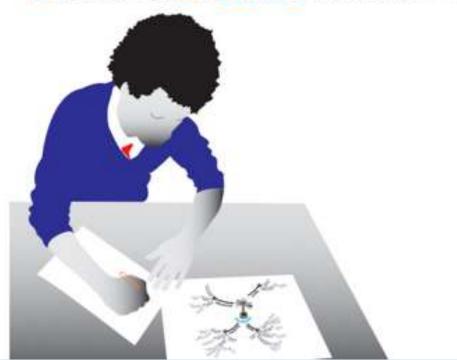
- Place the map between the pair
- In pairs, and in sequence, explain personal maps to one another
- Add additional details as you talk about them



Supporting Writing – begin writing

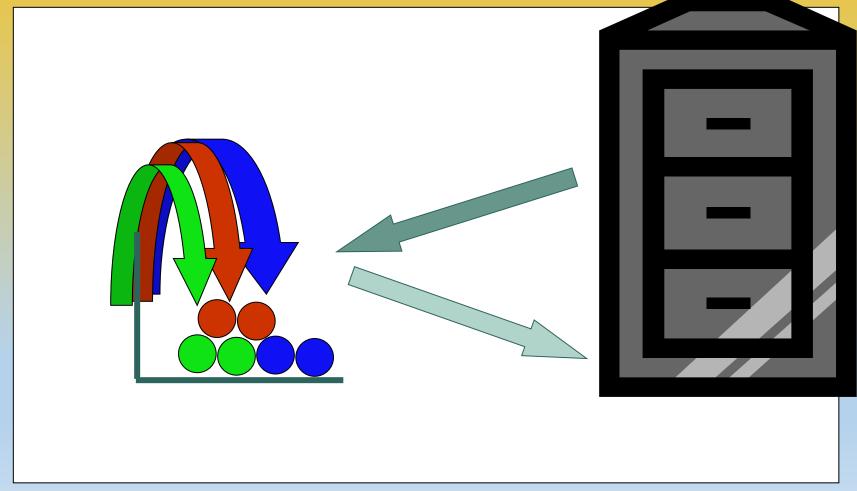
WRITE OUT THE PLAN

- Place the map in front of the pupil
- Write according to the plan
- Include the extra details mentioned in the talk



Talk less

Long term memory



T.G. West In the Mind's Eye:

'When people are known for their gifts, their difficulties remain unknown'

'When people are known for their difficulties, their gifts remain unknown

Strengths of neurodiverse learners

- Creativity
- Thinking laterally and making unexpected connections
- Problem-solving skills
- Seeing the 'big picture'
- Good visual skills, thinking easily in 3-D
- Good verbal skills
- Good social skills



Linking to what is already 'known' - Long term memory

- Metaphor
- •Simile
- Realia
- Child's own interest
- •Prior known knowledge

•What they think it is (Conversation with a peer)

(A story, 'hook' or joke)

Left brain hemisphere

- Language
- Facts
- Analysis
- Time orientation
- Sequencing
- Structure
- Mathematics
- Listening

Right brain hemisphere

- Pictures
- Feelings
- Humour
- Artistic
- Musical
- 3-D visual/spatial
- Patterns
- 'Whole picture'

Big Picture



Often in school knowledge can become compartmentalised and lose its connection(s) to the real world.

Challenge students to re-forge these connections by transferring knowledge out of the classroom and into society and the environment.

Ask them to analyse how what they are learning might link to jobs, ideas, actions, beliefs or relationships. Or, where it might have come from originally and why it might now be deemed important for schoolchildren to know.

Mind Maps



Many people use mind maps to plan essays. A mind map has a central topic, out of which stem key ideas. From these key ideas, further branches develop, containing sub-points.

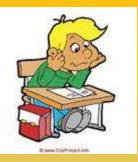
Mind maps help one to order information visually. They are also useful for ticking off information as it has been dealt with. In this way they act as an aide memoire, as well as an organisational tool.

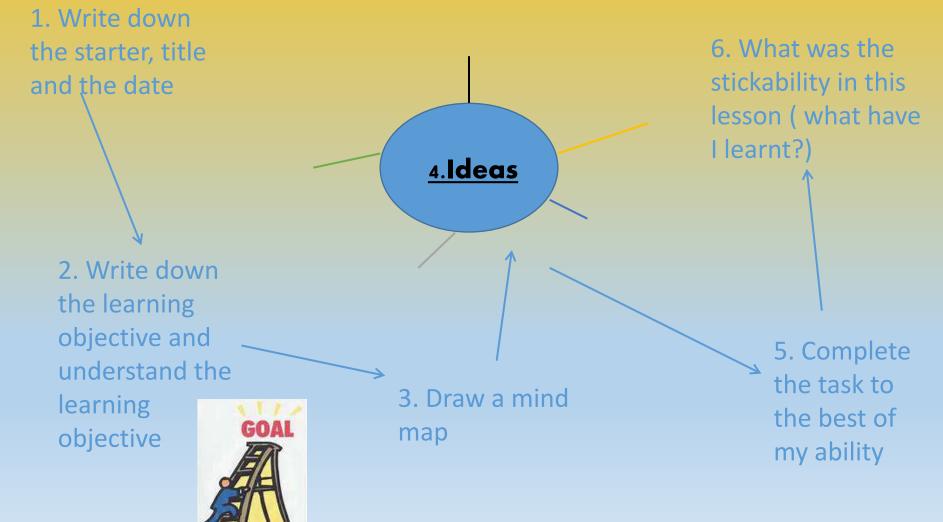
Information on mind mapping can be found at: <u>http://freemind.sourceforge.net/wiki/index.php/Main_Page</u> <u>http://www.mindtools.com/pages/article/newISS_01.htm</u> <u>http://www.thinkbuzan.com/uk/</u>



Route Map

What is expected of me within this lesson?





Wonder Wall



- Create a space on your classroom wall called the 'Wonder Wall'. You might like to make this look like a wall by chalking bricks onto black paper.
- When students think of questions and there is not enough time to explore these, ask them to write them down on a Post-It® note and to stick this on the Wonder Wall.
- When students have finished the tasks you have set in a lesson, ask them to fetch a question from the 'Wonder Wall' and to explore it either with a partner or in writing.

https://www.teachingenglish.org.uk/teacher-training/specialeducational-needs

The units are:

- introduction
- gifted and talented learners
- multi-cultural influences and the impact on learning difficulties
- dyspraxia
- inclusive assessment approaches
- attention deficit hyperactivity disorder (ADHD)
- autism spectrum disorder (ASD)
- language and speech difficulties
- visual, hearing and physical impairments
- dyslexia
- social, emotional and behavioural difficulties (SEBDs)