Gloucestershire Neurodiversity Project 2022.





ADHDFoundation



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Celebrating Neurodiversity- The Umbrella Project.





The Neurodiversity Charity

CPD Sessions for Education Professionals 2022-23

It costs £25 to attend live, or to receive a recording. Each session will take place from 15:45-17:15, including Q+A.

The ADHD Foundation: Neurodiversity Charity is running a series of live-streamed training sessions for educational professionals.

The webinars are applicable to all key stages and phases of education, including sessions that are specific to Early Years, Primary and Secondary settings. We also offer webinars designed for new entrants to the profession and Teaching Assistants. All the webinars will begin at 3:45pm and finish at 5:15pm and will include an opportunity for Q&A. It costs £25 to book on.

How to register

Please confirm your attendance to the webinar of your choice by following the relevant link below. This will take you to the event booking page, with a registration form to complete. You will then receive an email with instructions on how to join the webinar.

Can't attend?

If you are unavailable to attend the live webinar, and would like access to a recording, please continue to sign up; we will be in touch with a link after the session.

Autumn Term 2022

Monday 19th September Introduction to ADHD and the principal strategies to support for NQTs

Monday 26th September Introduction to ASC on the principal strategies to support for NQTs

Thursday 6th October Introduction to Neurodiversity in the Early Years

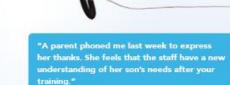
Wednesday 19th October Reading, Writing and ADHD

Tuesday 8th November Leading a Neurodiverse Classroom

Thursday 24th November Planning for the New Term for SENDCOs

Monday 5th December Supporting Memory in the Classroom

Tuesday 13th December Mental Health and Neurodiversity, including Rejection Sensitive Dysphoria



"Certainly one of the most useful sessions that I have attended, during my 22 years as a teacher, in terms of informing my practice."

Spring Term 2023

the course, thank you again."

Thursday 12th January Multi-Sensory Approaches to Learning in the Early Years and Key Stage 1 Classroom

"We had a 'breakthrough' moment with one of

our most challenging children yesterday due to

a teacher following some of the strategies from

Monday 23rd January Supporting Executive Functioning in the Classroom

Tuesday 7th February Exploring the Effective Use of Sensory Circuits

Thursday 16th February Supporting Neurodiverse Children and Young People for Support Staff

Wednesday 15th March Supporting Children and Young People with a Dual Diagnosis of ADHD and ASC

Thursday 30th March Understanding and Supporting Foetal Alcohol Spectrum Disorder (FASD)

Summer Term 2023

Thursday 20th April Understanding and Supporting Anxiety and

Wednesday 26th April Understanding and Supporting Attachment and Trauma

Monday 8th May Practical Strategies to Support Neurodiverse Children and Young People

Tuesday 16th May Girls, Young Women and ADHD

Tuesday 6th June Creating an Enabling Environment for Neurodiverse Children in Early Years and Key Stage One Part 1









Understanding Neurodiversity – 3-Part Webinar Programme for Parents

ADI-ID Foundation The Neurodiversity Charity

- 400 families registered to date
- Further details –
 lisa.rudge@adhdfoundation.org.uk
- Project runs until February 2023
- Wide range of dates and times available, including evenings and weekends



Session 1 – Sat 26th Nov, Tues 13th Dec, Mon 9th Jan, Mon 16th Jan, Mon 6th Feb

ADI-ID Foundation The Neurodiversity Charity

Session 2 – Sat 26th Nov, Tues 13th Dec, Tues 10th Jan, Tues 17th Jan, Tues 7th Feb

Session 3 – Sat 26th Nov, Tues 13th Dec, Wed 11th Jan, Wed 18th Jan, Wed 8th Feb

Thank you so much for today's webinar It was everything I hoped it would be and more. -I can't wait for sessions 2 and 3.

Thank you so much. such a useful session I've learnt a lot & it's made me feel a lot more positive



Attending the webinars has given me the language to talk about my son's challenges

Ss insightful. Really helpful to have new language for understanding my son.

Strategies for a Neurodiverse Classroom

Friday 18th November 2022

9:15 - 3:00 pm

The ADHD Foundation, in partnership with the Barnwood Trust, are holding a FREE conference event open to any education professional working in a school or college in Gloucestershire.

The programme will include presentations on evidence-based strategies to support neurodiverse children and young people in the classroom, including working memory, executive functioning challenges and support for self-regulation.

Hatherley Manor Hotel and Spa **Down Hatherley Lane** Gloucester, GL2 9QA

01452 730217



Register using the link below!

https://www.eventbrite.co.uk/e/strate gies-for-a-neurodiverse-classroomtickets-406737100617



















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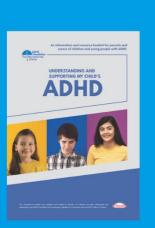
Key themes in Neurodiversity education.

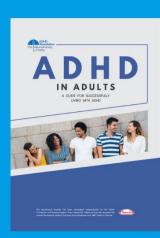
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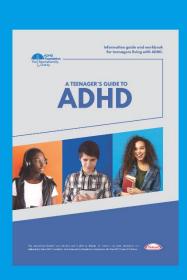




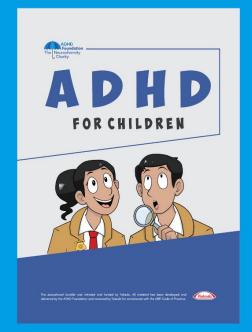












"The Umbrella Gang."



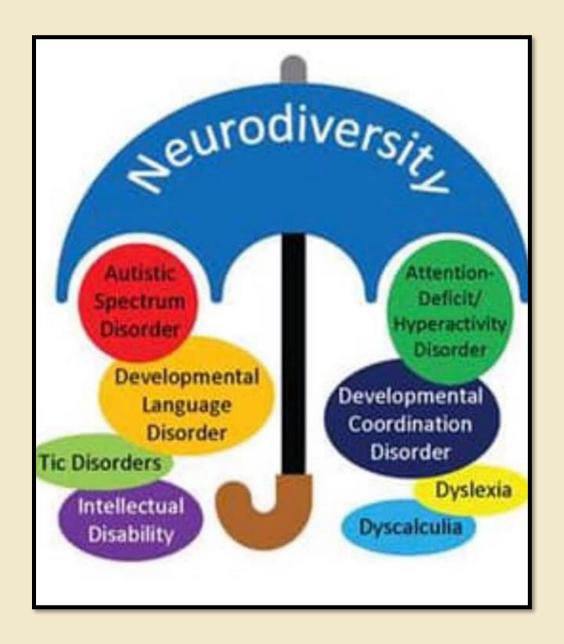






www.doitprofiler.com

info@doitprofiler.com



Neurodiversity is the 'Umbrella' term for

Dyslexia (1 on 10 people)

ADHD (1 in 20 people)

Dyspraxia / DCD (1 in 20 people)

Autism spectrum 1-2%

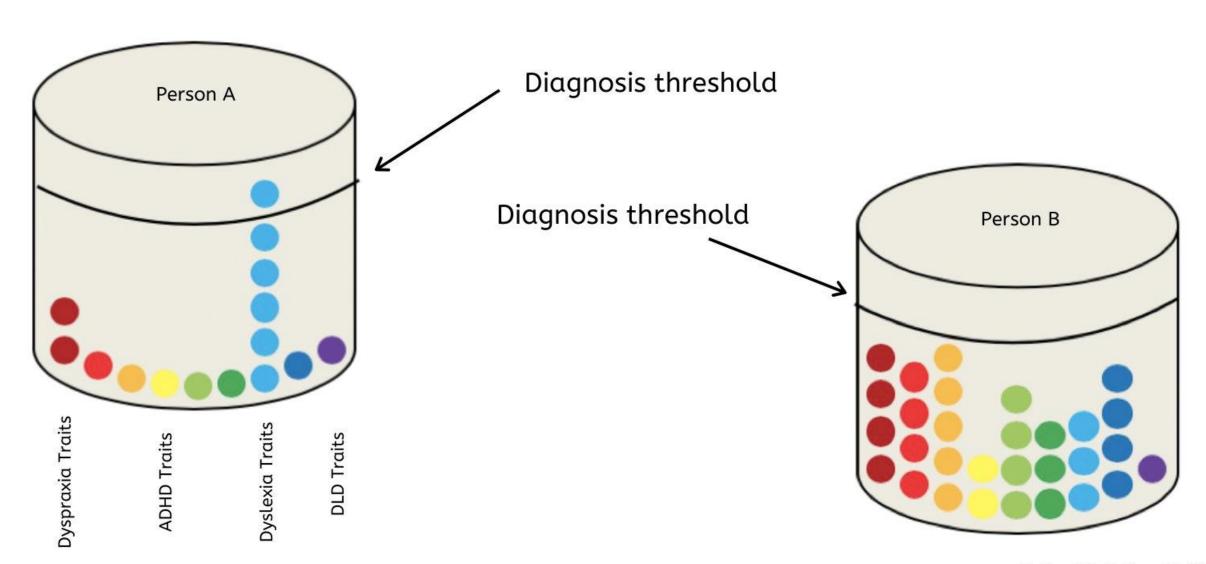
Dyscalculia 1 in 20 people

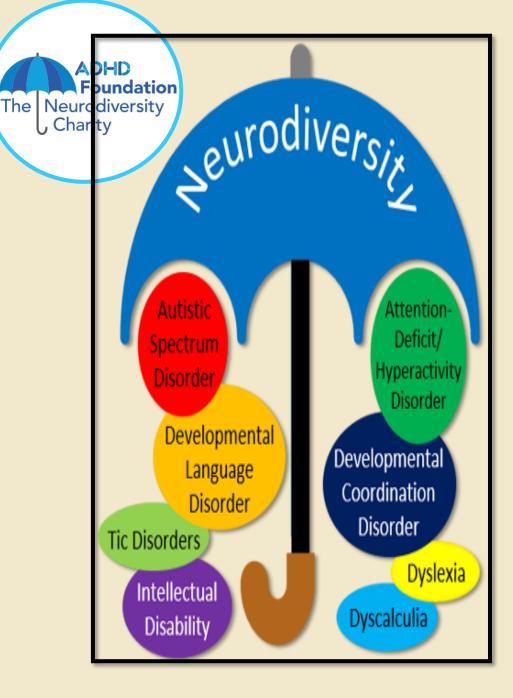
Dysgraphia 4 in 100 people

Tourette's Syndrome 1 in 100 people

13 million UK citizens (40% of whom do not know they are neurodiverse)

Why do some people miss out on a diagnosis and support for their challenges?

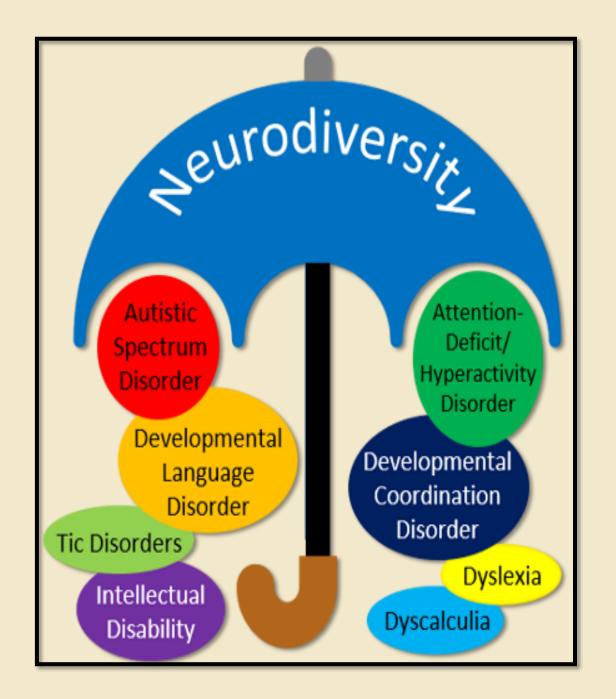




1)Co-occurrence is the rule. (Comorbidity.)

2)Girls and Young women.

3)Mental health: Learner Anxiety/ Emotional dysregulation/ODD/RSD





Understand and practice condition-specific strategies.

3x Ts

- 1) Too much all at once.
- 2) Too fast.
- 3) Too much teacher talk.





5 top tips:

- 1) If they are doing what you want, back off.
- 2) Don't talk whilst they are reading or writing.
- 3) Don't digress.
- 4) The "left to right, up to down rule."
- 5) Individual processing time.

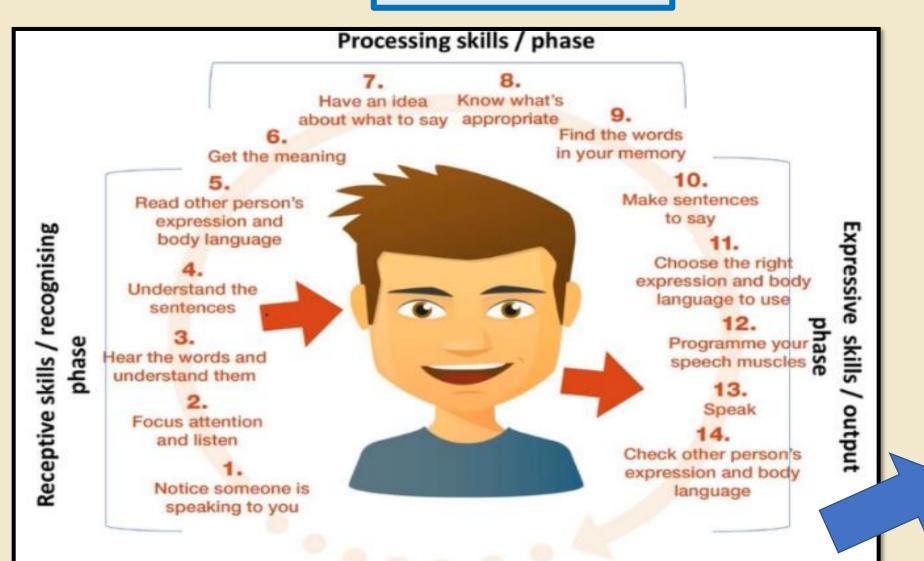




COMMUNICATION

Processing time and stages.





If there is a breakdown at any stage of the communication chain this will affect the person's ability to hear, understand and respond to what is being said.

The big six.



- 1) Explore the "spikey profile" recognise possible threshold **Co-occurrence**. **Explore condition- specific strategies**.
- 2) **Variable Attention** (Attentional Dysregulation): **Engagement** is everything.

3) Talk (subvocalising) and Movement.

4) Support for Executive Functioning

- 5) Building **Memory** (Working Memory) capacity & skills.
- 6) Supporting effective **Communication** (oral & Literacy, including reading)

2) Controls-Attentional, Impulse, Emotional. Planning & prioritising, time management

4)
Organisation,
sequencing/
ordering
information

1) Task initiation, organisation of materials

The Executive Functions (EF)

5) Flexible working/ thinking/ set shifting

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7) Working memory

6) Selfmonitoring

Skill	What does it mean?	What does it look like when weak?
Impulse Control	Thinking before acting.	May say inappropriate things and engage in risky behaviour.
Emotional Control	Can describe feelings and keep them in check.	Can over-react and find criticism hard.
Flexible thinking	Can adjust to the unexpected.	Get frustrated when asked about something new or from a different angle.
Working memory	Can keep information in mind.	Trouble remembering instructions, even with supports.
Self monitoring	Can judge how they are doing.	Surprised by a bad mark and get upset.
Planning and prioritising	Can decide upon a goal and can plan to meet it.	Cannot decide what is important for completing a task.
Task initiation	Can take action to get started.	Difficulty starting or where to begin.
Organisation	Can keep track of things physically and mentally.	Lose train of thought as well as possessions.



ADHD and Masking.

Arron.hutchinson@adhdfoundation.org.uk

Case Study

Hiding in the toilets

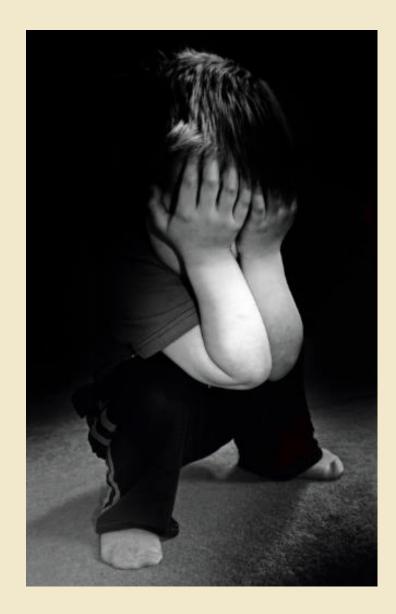
Crying

Unable to cope with demands of school

Executive functioning difficulties

RSD

Emotional dysregulation





Others' Perception of Them



Happy



Positive



Organised



On top of things



Masking

Hiding or camouflaging your condition

Attempting to 'fit in'

Can be conscious or subconscious

Also known as 'Impression Management'- Russell Barkley

1/3 of those with ADHD mask

Research suggests girls mask more frequently than boys





Why Mask?





Avoid stigma



Attempt to fit in



Rejection Sensitive Dysphoria

Rejection Sensitive Dysphoria

Constantly looking for signs of rejection

Expecting rejection

Intense emotional responses to any indication of rejection

Taking rejection extremely personally





Up to 99% of teenagers and adults with ADHD identify as being more sensitive than usual to rejection. 1 in 3 say it's the hardest part of living with ADHD. (Additude 2020)

Signs of Masking



Staying quiet or appearing withdrawn



Excessive worry about organisation



Reacting how you are expected to rather than how you feel

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Perfectionism



Suppressing physical movements



Mimicking or copying others



Being very early



Obsessively writing everything down



Irritable when forcing yourself to concentrate

Impact of Masking

Low self-esteem

Anxiety and/or depression

Feelings of isolation/difference

Exhaustion

Delay in diagnosis

People not believing you are struggling



Supporting Learners Who Mask



Normalise support strategies



Reasonable adjustments



Make time for mindfulness/self-regulation



Celebrate ADHD and ND



Be vulnerable – create an accepting environment



Communicate with parents



Case Study

Hiding in the toilets

Crying

Unable to cope with demands of school

Executive functioning difficulties

RSD

Emotional dysregulation







Thank you!







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Making Sense of Sensory Sensitivities and Neurodiversity.

Rachel.varney@adhdfoundation.org.uk



Our sensory system helps us to make sense of the world around us...



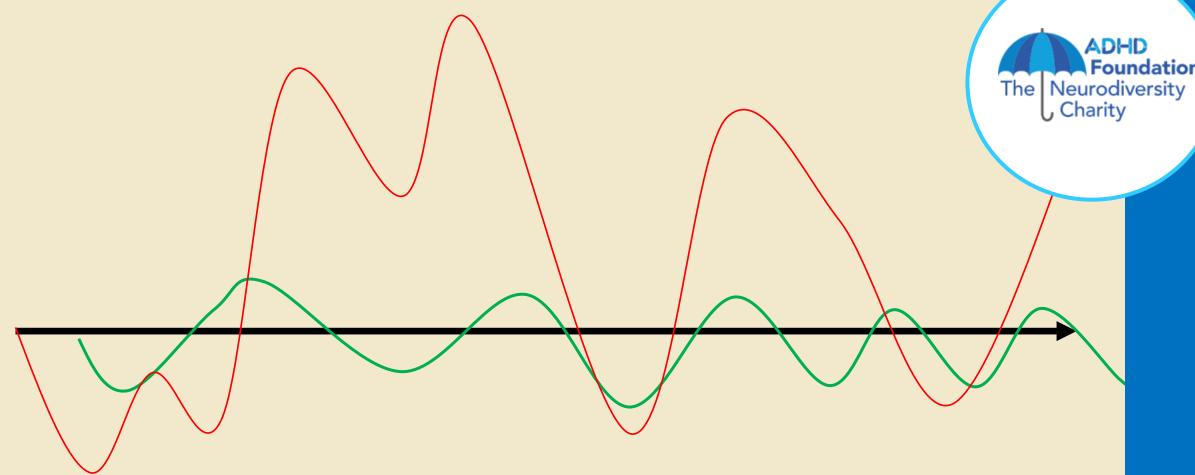


Information from the environment

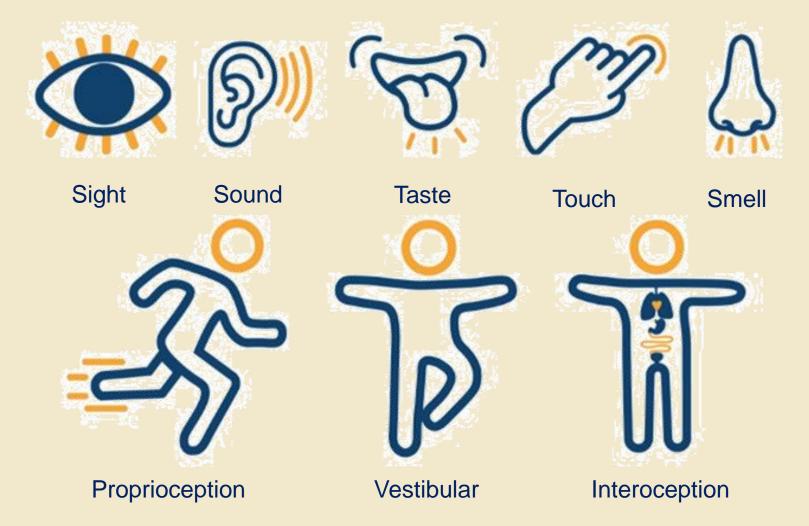
Integration

Behaviour

Sensory Regulation throughout the day



Sensory Integration Challenges





Sensory Integration puts it all together

When we eat an orange we have a total experience...



We sense the orange through our eyes (we see it)

Our ears (the sound of the skin peeling)

Our mouth (the taste)

Our skin (on our hands and fingers and in our mouth)

Our nose (the smell)

Sensory Integration puts it all together



...information from less conscious sensory systems that tell us...



The exact position of our hand

How wide we open our mouth

How hard to bite down

How much to move our head to our hand





I find it difficult to focus on a task.

I chew on everything

I have the tags cut out of my clothing

When I touch things, I can be too hard or too soft

I have coordination difficulties



I have difficulty following conversations

I like to smell things

Some materials / fabrics cause me distress

I don't like being tickled



I close my eyes in bright light

I am a fussy eater

I have the tags cut out of my clothing

I have poor fine motor skills

I hate being barefoot

I fidget and sit awkwardly



I dislike brushing my hair

I don't like loud noises

I don't always feel pain like others do

I don't like being cuddled



Sensory Overload

"When the brain and nervous system is bombarded with too much sensory input from one or more sensory systems and is unable to process and sort out the

incoming sensory messages"



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We can have difficulty in effectively regulating the degree to which we are influenced by sensory inputs. This can occur in any of the sensory systems.

Over-responsive (sensory avoiding)

Experiencing sensory inputs more intensely, more quickly and/or for a longer time than others. Such individuals often display a high state of arousal

Under – responsive

Taking longer to react and/or requiring intense or long lasting sensory inputs before a response is initiated. Such individuals often display a low state of arousal.

Sensory – seeking

Actively seeking out sensory input, sometimes in ways that are socially unacceptable or potentially dangerous. Such individuals often display a high state of arousal.



Hyper-sensitive or Hypo-sensitive







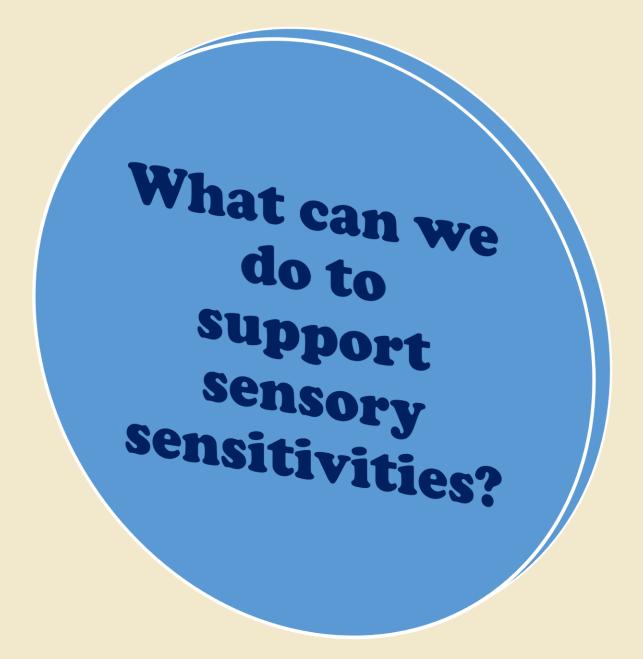
Avoiding

Seeking

The reason why it is crucial to support sensory challenges are...

- Engage with their environment and to thrive
- Tolerate/ cope sensations and situations that are challenging
- Emotionally & physically regulate
- To increase their capacity to be able to attend, participate and focus
- To support sensory seeking and sensory avoiding behaviours
- To reduce stress and anxiety

Sensory strategies should be personal and specific to the needs of the child or young person – one size does not fit all





Sensory support: Key Principles

- Strategies should be provided or accessible consistently throughout the day
- Pupils may need regular input or breaks MOVEMENT THEN BRAIN
- NOT to be used as a reward
- Can be helpful at key times i.e. after break time, first thing in morning or when is displaying dysregulation
- Think about the future and transferable strategies

Vestibular input can stay in the system for up to 7 hours- **Dampen with**© ADHD FOUNDATION 2022



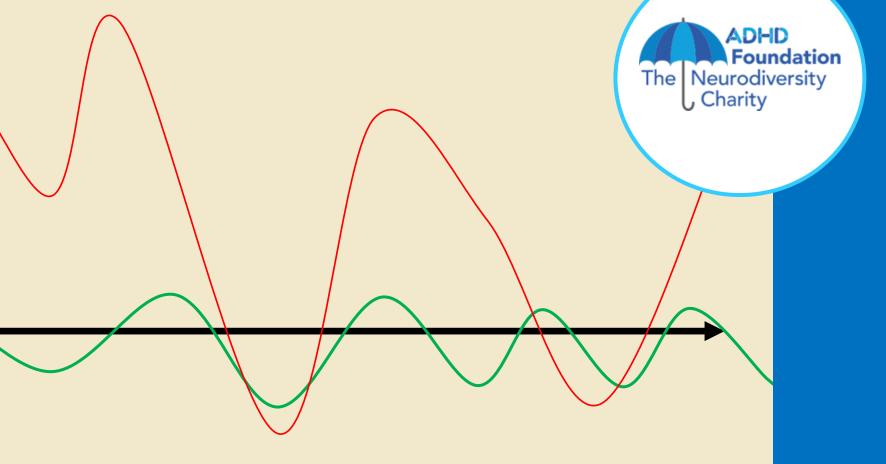
Calming Vs Stimulating

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- Create lists of calming and stimulating activities.
- Consider some of our pupils can present differently on different days (some days over aroused, some days under, some days all!)
- For a pupil who is over aroused we need to consider calming strategies/ for a pupil who is under aroused will require stimulating activities

The aim is to support the child to be ready to learn

Sensory Regulation throughout the day



How can we help? - Proprioception/Vestibular

- Heavy weight activities
- Stretching, climbing, co-ordination
- Non-distracting fidgets such as putty, rubber bands, blu-tack and squeeze balls.



- Therapy ball activities
- Yoga or stretching activities



Further Proprioception/Vestibular support...

- Weight bearing activities
- Wearing compression clothing
- Activities that involve swinging bats such as tennis, swing ball, golf
- Provide student with regular movement break
 opportunities throughout the day. This can include giving
 jobs to do such as handing out books, resources or
 equipment, setting up the room, going on an errand,
 cleaning the whiteboard.



How can we help? - Taste and smell

Show students what the lunch choices are in advance

Use of mouth fidgets can help prepare the mouth for eating



Chewy tubes/ pendants/ pencil toppers can help with students who chew everything

Crunchy or chewy foods can also be helpful

How can we help? - Taste and smell



If seeking certain smells - can it be put onto a handkerchief/ sweatband –preferred smells can be used on a handkerchief to be sniffed when needed and hide smells they don't like.





If struggling with smells such as the dining room, is there an alternative location? Consider where where they are sitting – can it be by a window or door far away as possible from where the food is served?

How can we help? – Sound

Where possible reduce background noises

Consider using headphones or ear defenders when necessary

When possible, warn of upcoming loud noises

Encourage deep breathing/relaxation techniques



Be aware that certain situations may be more distressing for student. For example, busy corridors, the dining hall, assemblies – can the pupil leave a few minutes before other students to avoid this? Consider using ear defenders or headphones

How can we help? – Sound

Provide a quiet space where students can go to if they feel they are becoming overwhelmed



Provide calming proprioceptive activities/ support throughout the day



Seating position – if possible, allow student to sit away from sounds and noises. Avoid sitting near windows and doors. Consider low level noises such as, fluorescent lights, whiteboards, etc.

Proprioceptive support is the secret strategy!

How can we help? - Visual

Buff paper rather than white (reduces glare) for Use handouts etc. Regular eye breaks by closing them for 60 seconds (or longer if Encourage necessary) regularly throughout the day Consider Slanted writing or reading surface to reduce glare Vestibular and proprioceptive activities regularly throughout the Provide day to support with self regulation. Access to a quiet space with reduced visual stimulation if Provide feeling overwhelmed



How can we help? - Visual

Never force eye contact

Use of clear pencil cases and bags to enable to find objects easier

Reduce visual clutter in rooms, workspaces etc.



Consider background colour and font on computers

Use natural lighting / sit away from windows and direct sunlight, do not sit under underneath bright, flickering or fluorescent

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How can we help? - Interoception



Yoga



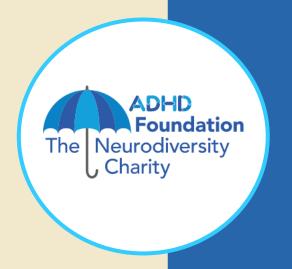
Happy Cheerful Sad Worried

Cheerful Sad Worried

Excited Content Scared Silly

Frustrated Confused Proud Angry

Label emotions



Explore temperature

Sensory Circuits/ Assault course— 3 stages

Alerting



Organising



Calming





The 3 stages of a sensory assault course

1. Alerting – Activities that promote vestibular balance.



2. Organising – Focus on organising the body.



3. Calming – focus on the limbic brain and relaxation





Sensory self regulation classroom supports

- Use of non distracting fidgets
- TheraBand's on chair legs
- Movement breaks
- Time out pass
- Quiet space for when feeling overwhelmed
- Being able to leave a few minutes before other students







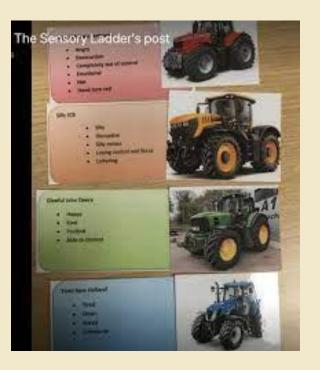


Sensory Ladders









Regulate – Self Regulation Spaces





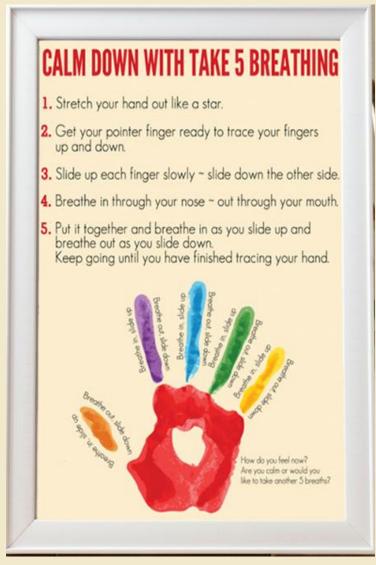








Regulate - Relaxation





























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Why are Neurodiverse Children and Young People Often Anxious and How Can We Help?

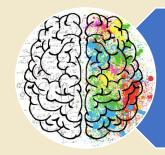
Arron.hutchinson@adhdfoundation.org.uk

Aims





Discuss what anxiety is and where it comes from



Explore the link between anxiety and ND



Explore a variety of coping strategies

What is Anxiety?

Feelings of tension

Worried thoughts

Intrusive thoughts or concerns

Feelings of dread

Nervousness

Sense of impending danger





"A futurelong-acting response focused on a general threat."

American Psychological Association

 $\frac{\text{https://www.apa.org/topics/anxiety\#:}\sim:\text{text}=\text{Anxiety\%20is\%20a}}{\text{n\%20emotion\%20characterized,certain\%20situations\%20out\%20o}} \\ \text{f\%20worry.}$

Where does it come from?



Imagine you are a caveman/woman

Danger around every corner

Alarm system

Fight/flight/freeze response

This is a good thing!



Learner Anxiety

Carol Dweck Study

"You must be smart at this"

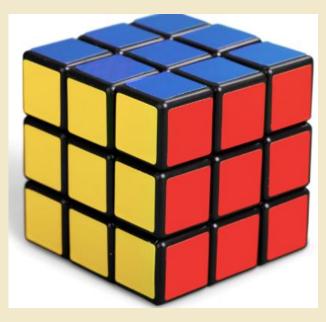
"You must have worked really hard"

Group 1 became increasingly anxious as the puzzles became more difficult

"If I can do it, I'm smart; if I can't do it, I'm not"

Praise the outcome rather than the effort





https://www.additudemag.com/slideshows/schoolanxiety-in-children-with-adhd/

Emotional Maturation

ND.....30% behind with executive & emotional maturation, so at:

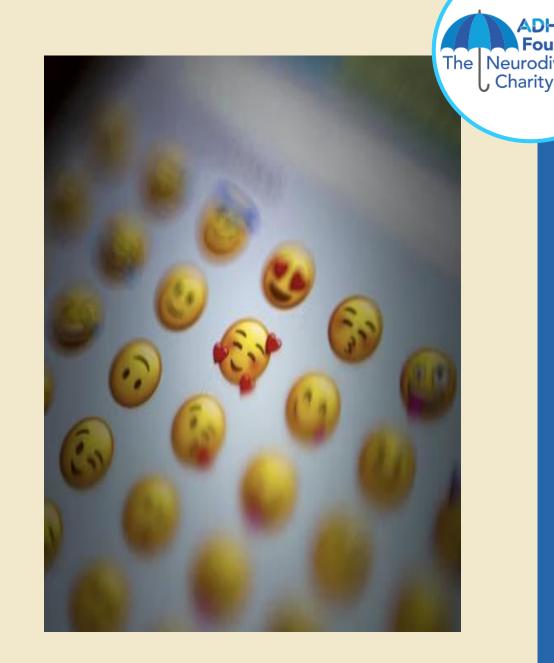
Age 18 can operate as if 12

Age 16 can operate as if 11

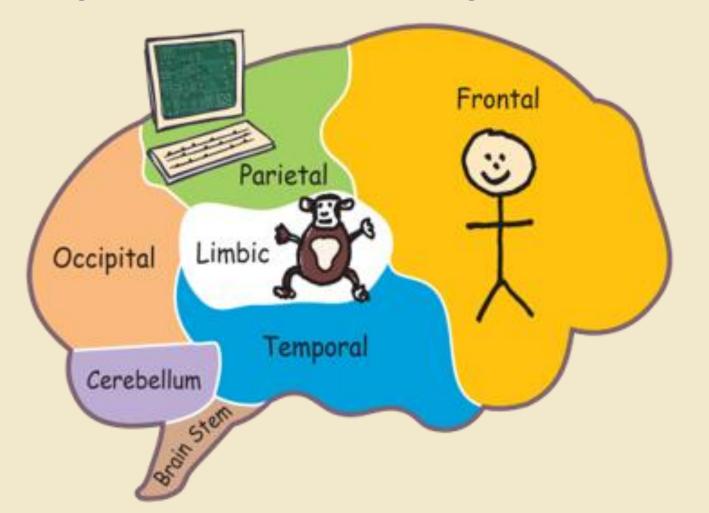
Age 14 can operate as if 9

Age 10 can operate as if 7

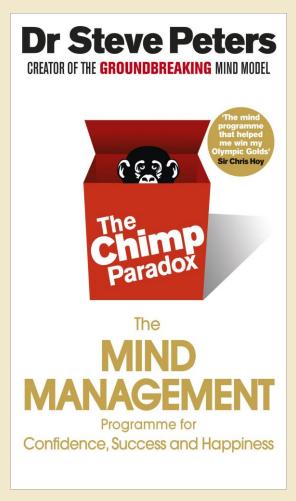
The brain reaches maturity in early to mid 20's



The Chimp Brain – Limbic System

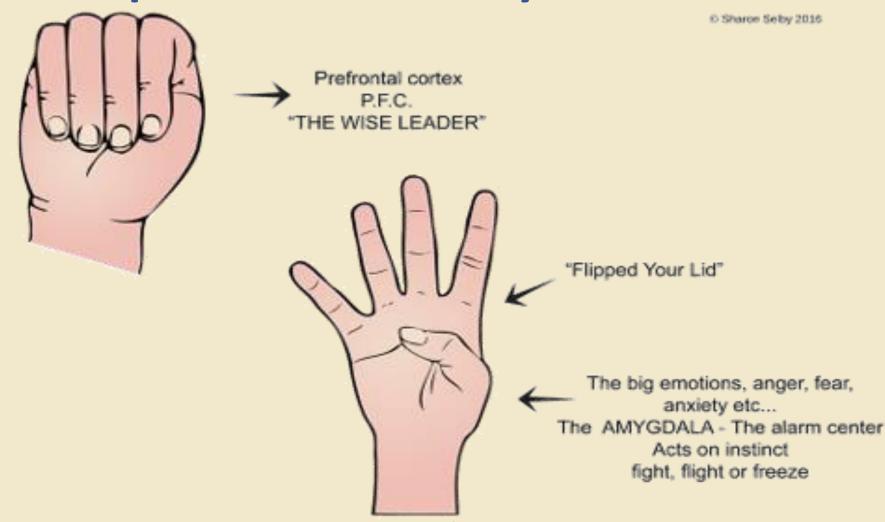






The Chimp Brain – Limbic System





Adapted from Dr. Daniel J. Siegel's Hand Model of the Brain found in Mindsight: The New Science of Personal Transformation (Bantam Books, 2010)

Rejection Sensitive Dysphoria



Constantly looking for signs of rejection

Expecting rejection

Intense emotional responses to any indication of rejection

Taking rejection extremely personally



Up to 99% of teenagers and adults with ADHD identify as being more sensitive than usual to rejection. 1 in 3 say it's the hardest part of living with ADHD. (Additude 2020)





Recognise

Regulate

Understand - Labelling

Help the child to name their feelings by giving it a label.

Naming feelings is the first step in helping child to learn to identify them.

It helps a child to develop emotional language so they can tell us how they are feeling. I think that you're feeling happy



I think that you're feeling sad

I think that you're feeling angry

I think that you're feeling worried

Understand - Labelling

Label your own feelings.

Ask the child to tell you how they think another person might be feeling.

Using films, books, characters on YouTube.

Give the child lots of opportunities to read facial expressions.

Display emotions.





Recognise





Fight



Flight



Freeze

Recognise





Regulate – Self-Regulation Spaces













Regulate - Relaxation



Take 5 breathing



Belly breathing

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Glitter jars



Apps (Headspace, Calm, MoveMood, ClearFear)



Visual reminders



Allowing time to talk and reflect

Regulate - Grounding



Weighted wristbands



Resistance bands

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Weighted blankets



Dumbbells



Weighted hoodies



Homemade resources



Thank You!







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Supporting Memory Challenges.

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1914191819391945

Memory: Encoding and retrieval:

Encoding: the mental processes involved in the creation of new memories.

Retrieval: The recovery of past memories. **Retrieval Practice.**

"practising retrieval has been shown to produce more learning than engaging in other techniques."

Therefore, educators must build into their curriculum planning and schematic maps, 'opportunities to retrieve'

Karpicke J (2016)



Famous word-learning experiment: students learned a list of foreign language words.

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Students saw a vocabulary word and its translation on a screen-recall trials, they saw a vocabulary word and had to recall and type its translation.

Results: Studying the words once = average recall was 1%

Massed retrieval (repeating the translations three times immediately) = produced no additional gain in learning.

Best results = **Spaced retrieval.** experience.

(Karpicke & Bauernschmidt, 2011).

"One and done theory"

If students can recall something once, they believe they have learned it, so they don't process it."

To form a memory, the brain must store new information so that it can be accessed later.- "encoding"

Three ways to do this-

Acoustic- hearing and repetition.

Visual-converting what you see into mental images.

Semantic- new information linked to existing knowledge and understanding- making sense of something and see how it functions or operates. Process of **schema** has begun.



Graphic Organisers: configuration of lines, shapes, images creating a visual representation of a pattern of thinking & **CONNECTIONS**.

Examples:

Knowledge/ recall- lists
Sequencing
Cause and effect
Similarities and differences
Classification
Connection.



Create "schema"- organise elements of information.

WORKING MEMORY AND CONNECTIVITY

Short answer tasks & free recall tasks.

Draw a map with connection arrows.



First person account/ diary/ hot seat/role play.

questions/ statements/ builds.

Series of actions that

Graphic organiser- key eventschronologyepisodic memory.

Low Stakes quizzing (testing)

Chronology reviews: Last month we.... Last week we.... Last lesson we.....

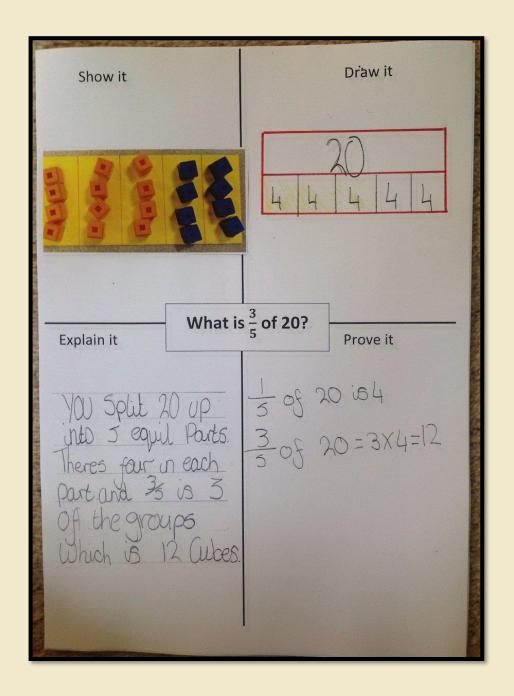




Externalisations.

"Externalise what is not happening internally."

MULTI SENSORY APPROACHES & MEMORY

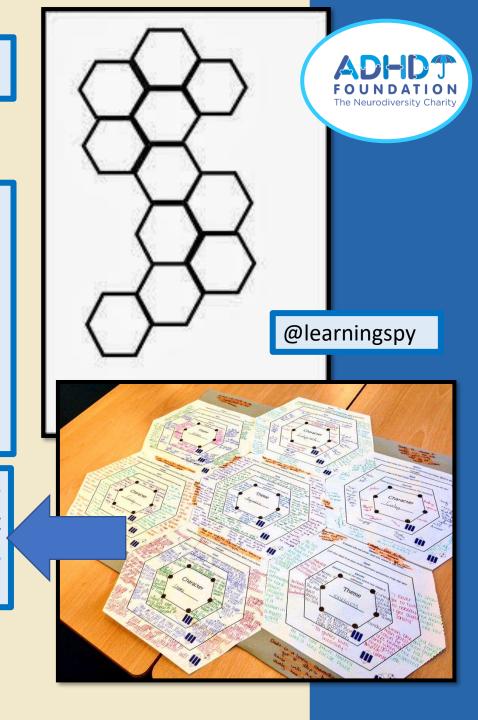




Externalisations.

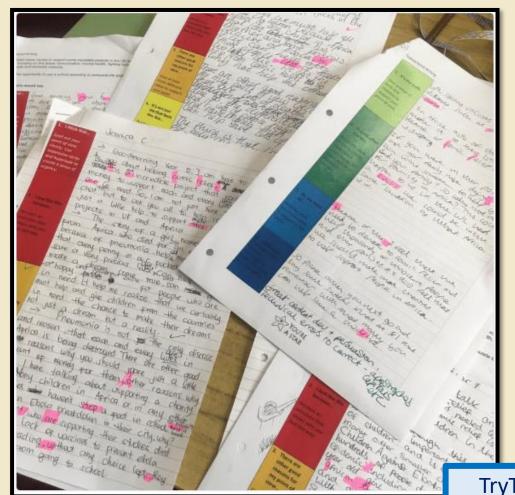
- 1) Reduce content on slides.
- 2) Alignment- text and pictures- clear visual correlation.
- 3) Avoid visual overload- too many different fonts, colours.
- 4) Chunking- Manageable parts- each section with a clear title.
- 5) Graphic organisers- emphasis upon Connectivity.
- **6) Externalisations:** sentence starters to scaffold writing, prompt sheets with specific questions to answer to construct a paragraph, cue cards, closed passages, vocab list.

Hexagon learning: How ideas are linked/connected together, see the bigger picture, not a long chain. Students can provide explanations at the point at which two hexagons meet to indicate how the two ideas are linked- used for spaced retrieval or as a revision tool.



REDUCTIONS & Externalisations.





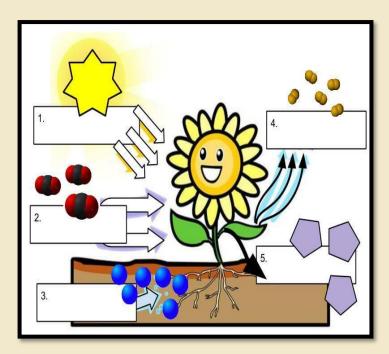
TryThisTeaching



1914191819391945

Label It:

Identify key features of a diagram without labels.



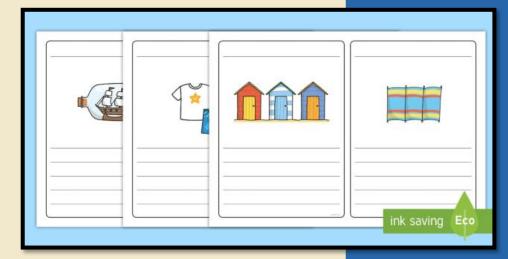
List it:

Series of lists, opportunity to interleave. Key terms, dates, characters, quotes.



Picture Prompt:

Series of images, how does each icon link to what we have learned?







Retrieval baskets:

Basket full of questions, each pupil takes one, teacher choses, time to prepare, groups, written or verbal.

Thinking and linking grids:

Dunkirk	Rationing	Churchill
Blitz	Air raid shelter	Gas Mask
Home Army	Evacuation	Land Girls

Box 1	Box 2	Link between the two



Low Stakes quizzing (testing)

Short answer tasks & free recall tasks.

Draw a map with connection arrows.



First person account/ diary/ hot seat/role play.

Series of questions/ builds.

statements/ actions that

Graphic organiser- key eventschronologyepisodic memory.

Chronology reviews: Last month we.... Last week we.... Last lesson we.....

Going for Gold:

Walkabout Bingo

Last Column Memory joggers



Write (or speak) sentences of what you have learned so far, Aim to include the following keywords in your answer.....

The Evacuation:

Bronze: War Children Train

Silver: Gas Mask Name badge Air Raid

Gold: Blitz Rationing Evacuation

Fan and Pick:

Questions on strips of paper, in a fan, Pupil A picks, pupil B asks, think time, answers and swap over.

Three Step Interview:

Step 1: Teacher announces the interview topic, prep time. Step 2: Pupil A asks, Pupil B answers. Step 3: Switch Roles. Coaches, groups.





Expand or elaborate:

Teacher provides list of facts or statements- pupils expand using own knowledge.



Pupils given sentence starter, must complete the rest, groups, swap and share.



Individual spotlight:

Focus on individuals, image as a clue, Extension= 2 individuals- links, commonalities, connection.

Big questions:

Start of lesson, revisit with a retrieval task later in lesson. Grid or table format.

Revisit one previous "big question."





Cops and Robbers:

Two column table.

Cops: Own knowledge Robbers: Information "stolen" from peers.

Set time, brain dump structure, could add subheadings.



Chunking- Cognitive load theory.

Sequencing tasks.



Cause and effect.

Similarities and differences.

Classification work.

Connection charts & tables.



Abstract to concreteverbal explanation with concrete example.

Modelling.



Dual Coding- using imagery and text - helps to form mental images of text materials.

Diagram of a rain forestchunked into groups of points- key words highlighted.



blank diagram- identify key words listed and place in the correct place.



Strengthening exercise – pick one element, talk about how it links to others.



What are the numbers?

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