

Strategies for supporting pupils with Special Educational Needs and Disabilities in Science lessons.

	Here's how we will help.
Attention	Practical activities - Science lessons have practical activities at their heart
Deficit	Madron Daniel utilises its outdoor area to support children
Hyperactivity	who need a bigger space to work in, to be creative and to show their learning practically.
Disorder	
	Children are prepared BEFORE the Science lesson if the lesson will be different to normal e.g. own clothes/outside/visitors.
Anxiety	 Children are prepared for any reactions/noises. Children are aware through a strong classroom science ethos

	that sometimes experiments go wrong and building resilience
	in this area is important. References to growth mindset are
	mase and the differences/mistakes are valued as part of the
	classroom ethos.
Autism	Children are prepared BEFORE the Science lesson if the lesson
AutiSili	will be different to normal e.g. own clothes/outside/visitors.
Spectrum	Children are prepared for any reactions/noises.
Disorder	Depending on the child and their specific needs, children on the
	Autism Spectrum may benefit from:
	Group work (they may be given a role within the group
	that they have chosen or can observe)
	One-to-one TA support - children can complete the
	experiment with tailored support.
	Preparation if there will be loud noises/mess_etc
	Being allowed to meet their own sensory needs eg: wash
	hands/give themselves distance if required
	Use annotate photographs as evidence / scribe if needed
	The most difficult element for dyscalculia in Science is
	recording accurately. To help we will:
Dyscalculia	Give the child a pre-made graph with some data already
	completed
	Have a range of ways to show their learning including:
	photographs, diagrams, labels to stick onto pictures,
	worksheets, posters, presentations (oral and visual),
	working in groups, verbal contributions, practical
	experiments and observations, matching activities etc
	Provide a range of ways for the child to show their
	learning including: photographs, diagrams, labels to stick
Dyslexia	onto pictures, worksheets, posters, presentations (oral and
	visual), working in groups, verbal contributions, practical
	experiments and observations, matching activities etc. so
	writing does not interfere with showing knowledge
	 Visual representations and videos are used to support
	lesson inputs as well as scientific texts.
	Children have access to learning resources such as sound
	charts, high frequency words that will support them to
	record their ideas and findings.
	Give opportunity for working in groups to allow children to
	work to their strengths. Children are aware of the importance
Dyspraxia	of working together to achieve as part of a shared science
_	ethos within the classroom.
	Experiments will be altered to allow access to all
	TA/Teacher support will be given where required

	Utilise outdoor space when needed. Children can work on a
	larger scale or feel more confident in a larger working area.
	Provide written and pictorial instructions
	Allow discussion and sharing of ideas to build verbal
Hearing	skills
Impairment	Have group members face the child when sharing
трантонс	Where practical activities are taken outside, inputs are
	given inside where possible to minimise noise
	interference.
	Childs specific seating in class to facilitate learning.
	Allow time to complete the experiment – give extra time if
	required
Toileting Issues	
0	• We will allow for a range of ways for children to
Cognition and	 We will allow for a range of ways for children to explain an experiment/results including in words,
Learning	pictures, comparisons to real-life situations and
	contextualisation.
Challenges	
	We will have a range of ways for children to show their learning including: photographs, diagrams, labels to stick
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	onto pictures, worksheets, posters, presentations (oral
	and visual), working in groups, verbal contributions, practical experiments and observations, matching
	activities etc
	 Visual representations and videos are used to support lesson
	inputs as well as scientific texts.
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Speech,	We will have a range of ways to show their learning
Languago	including: photographs, diagrams, labels to stick onto
Language +	pictures, worksheets, posters, presentations (oral and
Communication	visual), working in groups, verbal contributions,
Needs	practical experiments and observations, matching
14CCU3	activities etc.
	Vocabulary cards/mats with visual representations will
	be used to give instructions and to structure the sessions.
	Depending on frequency and severity of tics, some
Tourette	experiments may need to be adapted to accommodate
rourelle	spillage and experiments will be carefully supervised.
Syndrome	Give opportunity for working in groups to allow children to
_	work to their strengths. Children are aware of the importance
	of working together to achieve as part of a shared science ethos within the classroom.
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Experienced Trauma	 As with anxiety, trauma can stop a child learning in Science due to associations e.g. sights, smells, textures. We will prepare the child regarding noises, mess etc. if the experiment has the potential to trigger them. We will allow the child to observe rather than participate if needed or through group work, this could be allowing them to scribe, give instructions etc. or to be involved in the experiment without handling the ingredients/equipment.
Visual Impairment	 Familiarise the child with the equipment being used beforehand - let them feel the equipment and create an image in their mind. Discuss the experiment beforehand and prepare the child for any noises/textures. The child will complete the experiment with support given by TA/teacher as needed. We will explain the representation to the child and scribe responses to experiment, predictions beforehand etc Scribe, voice notes or videos used to record child's ideas.