Computing - Potential barriers and possible strategies to overcome these for learners with SEND

	Cognition & Learning	Communication & Interaction	Social, emotional & mental health	Physical, sensory & medical
Potential barriers to learning in	Difficulties reading and accessing the text Struggling with new and abstract	Finding technical and subject specific language difficult Applying new (and misunderstood	Becoming anxious due to being outside of the classroom (unfamiliar surroundings)	Finding a barrier in accessing their work when viewing the computer screens.
Computing	concepts Being unsure of the rules of the computer room/suite. During online safety lessons, not understanding the rules and consequences of being/ not being safe.	vocabulary to work) can create misconceptions in the fundamental aspects of the computing curriculum. During online safety lessons, not understanding the unsafe language used online or being able to report it to an adult in the correct way Finding difficulty with working alongside their peers/ in groups.	Misinterpreting the social and emotion cues of safe/unsafe online safety Finding difficulty with working alongside their peers/ in groups.	Not being able to access videos due to hearing issues. New language is misheard. Being in a different classroom setting when needing routine.
Examples	The pupil is unable to read the text from the interactive whiteboard or from their own computer screen. Words such as 'algorithm' and 'debug' are key concepts in the computing curriculum. But are words that will not have been used in the pupils 'everyday' vocab.	Words such as 'algorithm' and 'debug' are key concepts in the computing curriculum. But are words that will not have been used in the pupils 'everyday' vocab. Not being able to access group work and pair work due to their communicative barriers.	Feeling unsafe or dysregulated as the pupil is out of their safe and familiar space of the classroom. Not being able to access group work and pair work due to social and emotional barriers.	Pupils not being able to see things correctly or have difficulty accessing certain programs. Pupils being unable to access resources as they find them hard to hear or are unable to hear them at all. Due to language being new to them, they may mishear definitions, pronunciations or how

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	Not understanding how to behave in a new environment/ classroom whilst being around the computers.			to apply these words correctly in their work.
Suggested strategies and support	 Instead of saying "Don't share personal information online", consider a more realistic statement i.e. "Always ask a trusted adult, before sharing personal information online." Provide small steps to complete in independent learning activities as computing task could be unfamiliar. Provide handouts of resources needed for the lesson so they can reference it throughout. 	 Consider using SMART rules created by Childnet that include the use of widget symbols. Adapt instructions to unpick technical vocabulary so that the children can understand them. Provide opportunities for pairs to talk about unfamiliar topics/ words. Print out symbols and programmes that will be used in that lesson. 	 Ensure that parent/s/carers have implemented sufficient blocking or filtering software on pupil's devices; consider referring them to Online Safety lead for guidance on this. Make sure that a SEND pupil's trusted adult/s or 1-2-1 support worker/s is/are utilised so that they can scaffold exploration of online spaces safely. Could they 'rehearse' alone before working with a peer/have a consistent peer partner? 	 Ensure that children are able to adjust screen resolutions on computers and how to zoom in to make it easy to read. Consider the colours of text and backgrounds used on the board and on handouts. Allow breaks from the screens due to risk of fatigue. Ensure that any videos are subtitled so that children with hearing impairment can access them. Children were given seats that they sit in every time. This familiarity helps them become settled and used to their surroundings.