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CLOSING THE GAP WITH COOPERATIVE WORKING AND ASSISTIVE TECHNOLOGY:

***MENU OF TECHNOLOGY***

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* Chew aid e.g. ‘Chewellery’, pencil toppers etc
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4. Scanning Pens

**Low Tech**

1. **A person sitting at a desk writing on a book

   Description automatically generated with low confidenceDesk set up**

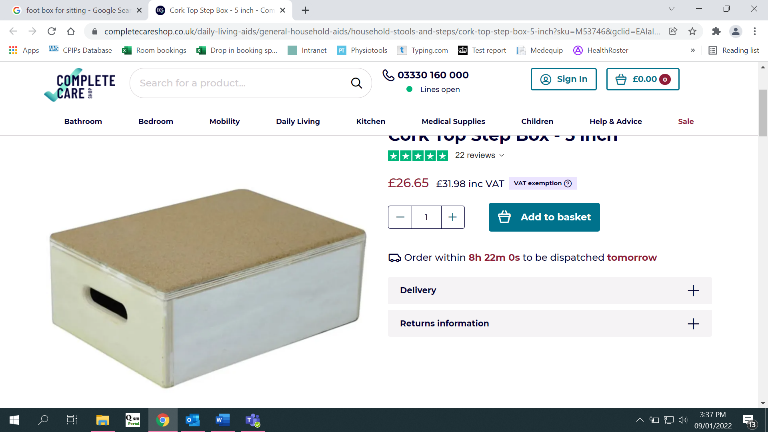
**Sloping board**

*Helps to stabilise wrist and forearm during writing activities.*

Benefits:

* Improves postural stability and upper limb position for children that present with increased flexibility in joints
* Reduces the impact of fatigue when writing

**Foot box**

*Provides a stable base of support for feet.*

Benefits:

* Children that are unable to reach the floor
* Improves postural stability and writing position at the desk
* Provides grounding sensory feedback

**A picture containing sport, table, worktable

Description automatically generatedHeight adjustable table**

*Might be considered for children that can’t reach the table or children who prefer to stand when writing.*

Benefits:

* Provides an alternate change of position and dynamic working space
* Allows for additional movement when working to aid regulation and provide sensory input
* Improved posture when writing

**Dycem matting**

*Non-slip surface that helps to keep objects in position.*

Benefits:

* Keep workbooks in place and prevents them from slipping. Useful for children who don’t stabilise their paper / text-book with their non-dominant hand
* **Logo

  Description automatically generated with low confidence**Very discreet

Graphical user interface

Description automatically generated**Supportive back cushion**

*Improve postural position. Can provide lumbar support for children that are naturally low toned and struggle to maintain upright posture. Useful when the seat depth is too large for the child.*

Benefits:

* Improve posture when writing/typing
* Reduce impact of postural fatigue
* Improved comfort for seated activities

**Postural wedge cushion**

*Facilitates anterior pelvic tilt to create a more functional posture for seated tasks.*

**A picture containing accessory, case

Description automatically generated**Benefits:

* Improve posture when writing/typing
* Reduce postural discomfort
* Reduce postural fatigue

**Posture pack**

*Contains writing slope with pencil/paper storage, carry handle and postural wedge cushion.*

Benefits:

* Could also be used with laptops/tablet
* Support postural stability at desk
* Portable and compact
* Combined angled writing slope and postural wedge cushion

**Laptop/tablet raiser or angled rest**

A picture containing sport, exercise device

Description automatically generated*Brings the laptop screen to eye level, thus bringing body into upright posture.*

Benefits:

* Improved posture and reduce effects of neck and back discomfort
* Can be used with height adjustable table
* Can improve upper-limb positioning for keyboarding

1. **Small equipment**

**A picture containing writing implement, pencil

Description automatically generatedPencil gripper**

*Placed on a pen/pencil to improve hand position and grip when writing, or to aid comfort.*

Benefits:

* Reduce the impact of pain, discomfort and fatigue when writing
* Encourage more functional or dynamic pen/pencil position
* Potential to improve the quality and fluency of writing through development of a more functional grip

*Graphical user interface, text, application, chat or text message

Description automatically generated***Alternative pens/pencils - (ergonomic, weighted, fat, skinny, triangular, coloured/gel pens)**

A picture containing text, stationary

Description automatically generated*Variety of different options depending on the individual needs of the child. May support better grip position or promote improved fluency.*

Benefits:

* Increased engagement in writing tasks
* Autonomy over own work when they are involved in selection process of choosing a pen/pencil
* Reduced pain and discomfort when writing

**Paper - (coloured, graph, spacing, textures, personal workbook, post it notes)**

A picture containing text, stationary, envelope, businesscard

Description automatically generated*Utilising different types of paper for writing tasks.*

Benefits:

* Greater engagement and improved motivation
* Coloured paper may help children with specific learning difficulties, dyslexia, visual perceptual problems or sensory processing difficulties
* Paper that provides visual cues on how to physically organise work on the page is useful for children with poor praxis and coordination

*Text

Description automatically generated***Coloured overlays**

*Sheets of translucent or transparent coloured plastic that can be placed over a page to colour the text underneath.*

Benefits:

* Reduce the impacts of visual difficulties when reading
* Can be used over books and laptops/tablets
* Reduces visual contrast for children with sensory processing difficulties and can also assist reading for those with specific learning difficulties (as with coloured paper)

1. **Position in the Classroom**

*Consider the child’s needs in relation to factors such as sensory processing, attentional abilities, anxiety etc. Would the child benefit from any of the following:*

* + Reduce auditory distractions (e.g. not seated near the doorway, other busy areas or near other children who are known to make increased noises in class)
  + Reduce visual distractions (e.g. front of class and able to see the board without having to look around other children or obstacles)
  + Not in thoroughfare/aisles to minimise sensory distractions from others in the class
  + Diagram, engineering drawing

    Description automatically generatedSeparate desk space
  + Work buddy (e.g. being seated with a student who may have a positive influence on the child’s output)
  + Option to work out of class if required (e.g. when learning to use AT)
  + Clear exit route and/identified safe-space to reduce anxiety

1. **Sensory equipment**

A pair of blue headphones

Description automatically generated**Ear defenders**

*Used to block out/reduce loud noise - (N.B. Must not be used for prolonged periods of time).*

Benefits:

* Useful for children who struggle to filter auditory information
* Useful for anxious children who may struggle with increased sensory sensitivities

*A picture containing text, person

Description automatically generated***Privacy board**

*A sheet of foldable plastic that can be placed on the desk to provide a private workspace.*

Benefits:

* Limit distractions and sensory information (visual, auditory)
* Increase focus
* Provides a calm space

**Fidget toys**

*Small equipment that can be used to help children self-regulate throughout the day.*

Benefits:

* Increase attention, focus and active listening
* Promote sensory regulation
* Reduce the impact of anxiety

**Sensory breaks**

![A group of toys on the floor

Description automatically generated with low confidence](data:image/jpeg;base64,/9j/4TzgRXhpZgAATU0AKgAAAAgADQEOAAIAAAAgAAAItgEPAAIAAAAYAAAI1gEQAAIAAAARAAAI7gESAAMAAAABAAEAAAEaAAUAAAABAAAJAAEbAAUAAAABAAAJCAEoAAMAAAABAAIAAAExAAIAAAAgAAAJEAEyAAIAAAAUAAAJMAITAAMAAAABAAIAAIdpAAQAAAABAAAJRMSlAAcAAAIiAAAmDOocAAcAAAgMAAAAqgAAKC4c6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE9MWU1QVVMgRElHSVRBTCBDQU1FUkEgICAgICAgICAAT0xZTVBVUyBJTUFHSU5HIENPUlAuICAAVkcxODAsRDc3MCAgICAgIAAAAAABOgAAAAEAAAE6AAAAAVZlcnNpb24gMS4wICAgICAgICAgICAgICAgICAgICAAMjAxNTowNTowNSAwNzozMDoyNAAAI4KaAAUAAAABAAAS+oKdAAUAAAABAAATAogiAAMAAAABAAIAAIgnAAMAAAABAPoAAIgwAAMAAAABAAEAAJAAAAcAAAAEMDIzMJADAAIAAAAUAAATCpAEAAIAAAAUAAATHpEBAAcAAAAEAQIDAJIEAAoAAAABAAATMpIFAAUAAAABAAATOpIHAAMAAAABAAIAAJIIAAMAAAABAAAAAJIJAAMAAAABABkAAJIKAAUAAAABAAATQpJ8AAcAABImAAATSpKGAAcAAAB9AAAlcKAAAAcAAAAEMDEwMKABAAMAAAABAAEAAKACAAQAAAABAAABkKADAAQAAAABAAABLKAFAAQAAAABAAAl7qMAAAcAAAABAwAAAKQBAAMAAAABAAAAAKQCAAMAAAABAAAAAKQDAAMAAAABAAAAAKQEAAUAAAABAAAmAqQFAAMAAAABABoAAKQGAAMAAAABAAAAAKQHAAMAAAABAAIAAKQIAAMAAAABAAAAAKQJAAMAAAABAAAAAKQKAAMAAAABAAAAAOocAAcAAAgMAAAK7uodAAkAAAABAAAOFAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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in the day that provide the child with an opportunity to ‘re-set’ themselves through a sensory-based activity e.g. deep proprioceptive or physical activity; Sensory Circuits etc.*

Benefits:

* Improved focus, concentration and attention
* Improved regulation throughout the day
* Reduce the impact of anxiety

A picture containing text, outdoor, red

Description automatically generated**Visual schedules**

*Pictures or symbols that are used to clearly describe expectations of an activity or events in the day.*

Benefits:

* Useful for children who may struggle to process or understand verbal instructions
* The child can refer back to it in their own time, thus increasing autonomy and providing reassurance.
* Reduces stress and anxiety about what to expect
* Helps children to embark on tasks or activities

**Timers**

Chart, funnel chart

Description automatically generated*Used to measure time and provides a clear visual indicator to the end of an activity.*

Benefits:

* Acts as a visual prompt to engage in a task
* Motivational tool to finish an activity in a set time frame
* Reduces anxiety regarding a task by providing a clear endpoint

**Leave early/Time-out pass**

*A card or slip of paper that provides child with opportunity to leave classroom when required e.g. when over-whelmed or needing a break.*

Benefits:

* Develops self-awareness of when they require a break
* Increase autonomy and independence
* Reduces anxiety by providing control and a clear ‘exit’, which can help children to stay on task for longer

**Chew aid e.g. ‘Chewellery’, pencil toppers etc**

*A piece of sensory equipment that provides oral input.*

*Diagram

Description automatically generated*Benefits:

* Provides increased proprioceptive feedback
* Known to be calming and regulating
* Help a child to self-regulate autonomously
* Improves focus and attention
* Reduces anxiety

**Weighted items e.g. lap-pads, shoulder comforters, weighted toys**

*Provides a form of deep pressure to help with sensory regulation.*

**A pair of blue jeans on a wooden bench

Description automatically generated with low confidence**Benefits:

* Regulates sensory system
* Increased proprioceptive input can increase a child’s ability to tolerate activities, (e.g. seated tasks)
* Comforting and reduces anxiety

**‘Movin-Sit Cushion’**

*An air-filled wedge-shaped cushion that encourages an active sitting posture and provides proprioceptive input whilst seated.*

A picture containing kitchenware

Description automatically generatedBenefits:

* Helps children that need movement or can be fidgety
* Increased engagement in classroom activities
* Can be used on most classroom seats or during floor activities
* Assists regulation throughout the day
* Facilitates anterior pelvic tilt to create improved posture for seated activities

1. **Other**

*Consider the child’s needs in relation to their recording abilities and their developmental profile or any known diagnoses. Would the child benefit from any of the following:*

* Scribe
* Pre-prepared lesson handouts
* Writing down verbal instructions for tasks (for the child to have with them on the desk)
* Picture prompts for tasks
* Work planning sheets e.g. spider diagram, comprehension sheets, matching answers
* Alternative methods of communicating learning e.g. PowerPoints, oral presentations, posters etc.
* Teaching Assistant support for specific components of the task, e.g. initiation, planning, checking-in ideas, spelling etc.

**High Tech**

1. **Laptop/Computer/Tablet/iPad**

**A picture containing computer, indoor, keyboard

Description automatically generated**

* With/without detachable keyboard
* With/without detachable mouse
* Larger keys keyboard
* Text

  Description automatically generatedColoured keys or keyboard
* Coloured/high contrast overlays for keyboard
* Ergonomic keyboard
* A picture containing text, electronics, microphone, cellphone

  Description automatically generatedKeyguards/hiding unnecessary keys
* Lower case keyboard
* Large mouse/ergonomic mouse
* Stylus for tablets/iPads (with/without mount)
* Joystick
* Switches
* Microphone
* Headphones

Things to consider:

* Childs fine motor and upper-limb function
* Visual processing/discrimination
* Learning level/capacity
* Concentration and focus
* Sensory processing preferences
* Communication abilities – both receptive and expressive communication
* Long-term aims and aspirations

1. **Programmes**

**2.1 Word-processing software**

**Clicker 8**

*A word-processing programme that is useful for literacy-based tasks. There are many inbuilt functions such as speech feedback, talking spell checker and word predictor functions. There are also mind-mapping features, sentence support, word banks and symbols to support developing writers. Can be downloaded for Windows, Mac, Chrome and IPad.*

Graphical user interface, application

Description automatically generated with medium confidence

Benefits:

* Supports learners with reading and writing difficulties
* In-built mind mapping
* Word banks and predictions
* Spell check
* Easier layout than Microsoft programmes
* Can be used as an alternative to a scribe for assessments and exams giving students greater autonomy
* Text to speech read back

Things to consider:

* Time to set up the programme to the student’s preferences
* Staff teaching
* Pupil teaching and learning level
* I.T. support for any trouble shooting

Who would benefit:

* Children that have reading and spelling difficulties
* Children that struggle to formulate sentences
* Children that benefit from combined symbols and texts
* Children that would benefit from hearing back their work
* Children that become distracted by additional features on Microsoft programmes or who would benefit from a simpler layout
* Children who struggle with initiating and planning their work

[**https://www.cricksoft.com/uk/clicker/8/word-processor**](https://www.cricksoft.com/uk/clicker/8/word-processor)

**Docs Plus**

*Similar programme to Clicker 8 but targeted at young adults and higher education. Has many of the same features as Clicker 8. Can be downloaded for Windows, Mac, Chrome and IPad.*

Benefits:

* Supports learners with reading and writing difficulties
* In-built mind mapping
* Word banks and predictions
* Spell check features
* Easier layout than Microsoft programmes
* Can be used as an alternative to a scribe for assessments and exams giving students greater autonomy
* Text to speech read back

Things to consider:

* Time to set up the programme to the student’s preferences
* Staff teaching
* Pupil teaching and learning level
* I.T. support for any trouble shooting

Who would benefit:

* Students that have reading and spelling difficulties
* Students that struggle to formulate sentences
* Students that benefit from combined symbols and texts
* Students that would benefit from auditory feedback
* Students that become distracted by additional features on Microsoft programmes or who would benefit from a simpler layout
* Students who struggle with initiating and planning their work

[**https://www.cricksoft.com/uk/docsplus/win-mac**](https://www.cricksoft.com/uk/docsplus/win-mac)

**2.2 Mind mapping software**

**Inspiration V9 Mind Mapping**

*“Brainstorm ideas, structure your thoughts and visually communicate concepts to strengthen understanding with the Diagram and Map Views. To take notes, organise information, and structure writing for plans, essays, and reports, use the integrated Outline View. With Inspiration's Presentation Manager, transform your diagrams, mind maps and outlines into polished presentations that communicate ideas clearly and demonstrate understanding and knowledge.”*

[**http://www.inclusive.co.uk/inspiration-v9-p2227**](http://www.inclusive.co.uk/inspiration-v9-p2227)

**Mind View 5 AT**

*“MindView AT has been designed to help visual thinkers create impressive written assignments and presentations. The smooth transition from a Mind-Map to Word and PowerPoint means students can make powerful, formatted documents ready for assessment. The added assistive technology software functionality, including text-to-speech, Dragon integration, predictive text, and audio notes make MindView AT the industry leader in mind mapping for assistive purposes.”*

[**http://www.inclusive.co.uk/mindview**](http://www.inclusive.co.uk/mindview)

Benefit of Mind Mapping Software:

* Reduces typing demands – short words and phrases
* Helps to visualise ideas
* Fun way of learning and documenting ideas
* Motivating
* Useful note taking tool

Things to consider:

* Set up and I.T. troubleshooting
* Cost
* Might be difficult for students to further elaborate on points
* Staff teaching
* Pupil teaching and learning level

Who would benefit:

* Individuals who benefit from visual feedback
* Children that struggle with concentration and focus
* Student’s that struggle to plan their work and formulate sentences
* For children where writing/typing fatigue may be an issue

**Jamboard**

*A collaborative white board, which can also be used to plan and share ideas. Can be used individually or for group activities.*

Benefits:

* Can be used to make notes, mind map etc.
* Free if you have a Google email address
* Simple and easy to use
* Can be shared with other students and teachers

Things to consider:

* Requires a Google email address to access
* Internet connection required

Who would benefit:

* Individuals that benefit from visual feedback
* Children that struggle with concentration and focus
* Children where writing/typing fatigue may be an issue
* Learners who may benefit from collaborative working

[**https://jamboard.google.com**](https://jamboard.google.com)

**2.3 Typing Programmes**

**Nessy Fingers**

*“Nessy gets children typing real words fast and introduces spelling practice immediately.*

*Keys are introduced alphabetically which makes sense to children. This is different to most other typing programs, which mix up random letters. Nessy Fingers is suitable for ages 7+.*

*The program has been designed to be used by both beginners who have never typed before, or those with keyboard experience, who want to improve their typing speed. It is especially effective for children with dysgraphia, dyslexia and ADHD. Nessy Fingers follows a structured sequence of word lists that progress from easy to complex. Children can add their own words from school to practice spelling.”*

Benefits:

* Simple and easy to use
* Multiple accounts can be set up on the one subscription so can be used with multiple students
* Fun and engaging
* Can be tailored to needs of child

Things to consider:

* Focuses on touch-typing, which is a challenging typing style not used by many competent typists
* Good concentration and attention required
* Learning capacity of the child
* Adult support
* Targeted at younger students – might not be appropriate for secondary school age
* Cost of subscription
* Can be difficult for children who struggle with a competitive element

Who would benefit:

* Children that have the capacity to learn and develop touch typing

[**https://www.nessy.com/en-gb/product/nessy-fingers-home**](https://www.nessy.com/en-gb/product/nessy-fingers-home)

**English Type Junior and Senior**

*“Englishtype Junior and Senior is the educational and fun way to teach touch typing for kids. Developed by an experienced Educational Psychologist especially for the UK Curriculum and designed by award winning game designers. Unlike other touch typing software, Englishtype maximises literacy benefits at the same time as teaching typing. Unique colour coding of fingers & letters boosts skill learning. Carefully selected age relevant & useful vocabulary (choose from 4 levels) is great for any ability level – challenging the brightest and including support for Special Needs.”*

Benefits:

* Targeted at both primary and secondary school aged children, a more versatile programme

Things to consider:

* Focus on teaching touch-typing, which is a challenging typing style not used by many competent typists
* Good concentration and attention required
* Learning capacity of the child
* Cost of subscription

Who would benefit:

* Children that have the capacity to learn and develop touch typing skills

[**https://englishtype.com/special-needs/**](https://englishtype.com/special-needs/)

**Free online typing games**

*The below websites and software have not been fully trialled by the therapy team. It may be a case of trial and error to find the best suitable games and programmes for a child. If you would like anymore free typing games or lessons just type in ‘free typing games’ into your web search engine.*

* [**www.typing.com**](http://www.typing.com)

A free typing tutor that logs your progress. Typing lessons with minimal distraction and fun, animated typing games.

* **www.sense-lang.org**

Touch typing tutorials to guide you through locating and memorizing the letters and numbers on the keyboard and numeric keypad.

* **edu.gcfglobal.org/en/typing/typing/1/**

Clear instructions and guidance for practising typing skills and key location.

* **www.freetypinggame.net**

Play free typing games, typing lessons and typing tests online.

* **www.powertyping.com**

Free typing tutor online with typing lessons and games.

* [**www.learninggamesforkids.com/keyboarding\_games.html-**](http://www.learninggamesforkids.com/keyboarding_games.html-)

Online learning games.

* [**www.bigbrownbear.co.uk/learntotype**](http://www.freetypinggame.net)

Free typing games and lessons.

* **www.dancemattypingguide.com**

Free online program. For ages 7-11. No games, a reward for completing a section is a song and dance.

Benefits:

* Free (with internet connection)
* Easy to access
* Variety of different games to keep children interested and motivated
* Focus on key location and increasing typing speed
* Accessible for novice students, as well as providing practice for students who may already have a degree of keyboard familiarity

Things to consider:

* Internet connection required
* Age-appropriateness of programmes and games
* Need to be able to understand letters and symbols of keyboard

Who would benefit:

* Children that may struggle with structured typing lessons (e.g. learning to touch-type)
* Children who are looking to introduce typing as a method of recording their work
* Children who may benefit from building up enjoyment and confidence with typing

1. **Speech to text (dictation)**

**3.1 Inbuilt dictation for computer/tablet/iPad**

*Converts speech to text. Can be enabled through the accessibility settings of most laptops, computers, tablets and iPad.*

Benefits:

* Plays to the strengths of individuals who are good verbal communicators
* Free - already built into most devices
* Accessible for students with broader literacy difficulties, e.g. struggle with spellings
* Requires minimal motor skills

Things to consider:

* Quiet environment with no background noise to be able to use effectively
* Still need to be able to type/use a computer to go back through work and edit
* Can mis-hear words
* Needs time and practise to get more proficient
* Require reasonable level of reading ability
* Need to be able to articulate words relatively clearly

Who would benefit:

* Students that are strong verbal communicators
* For students where fatigue is an issue
* Transferable skill if also using smart devices at home
* Students who have broader literacy difficulties, e.g. problems with spelling
* Students who may struggle to conceptualise ideas visually
* Students who have difficulties initiating recording via text, (i.e. writing or typing)

**3.2 Dragon Dictate Software**

*A speech recognition programme that converts speech to text. “The Nuance Dragon Naturally Speaking 13 Premium is the full-feature edition of the speech recognition system and a simple way to interact with your PC - via your own voice. The premium version is intended for educational institutions and students.”*

Benefits:

* Has additional functions that standard Microsoft dictation software doesn’t have, for example, inputting punctuation
* Greater independence, rather than relying on scribe

Things to consider:

* Cost
* I.T. troubleshooting
* Subscription limited to one device
* Need to have level of computer literacy and typing skills to be able to correct work as dictating
* Need to be able to articulate words relatively clearly

Who would benefit:

* Students that are strong verbal communicators
* For students where fatigue is an issue
* Students who have broader literacy difficulties
* Students who may struggle to conceptualise ideas visually
* Students who have difficulties initiating recording via text, (i.e. writing or typing)

[**www.UKTechStore.com**](http://www.UKTechStore.com) £79.99 for a single user license (downloaded license)

1. **Scanning pens**

*“The reader pen or scanning pen is a portable, text-to-speech scanner. Pass the pen’s nib across a word and it instantly displays the definition while reading it aloud. It is a valuable notetaking and revision tool for students, teachers, and professionals.”*

Benefits:

* Helps students to learn and understand new words as well as reading sentences aloud
* Portable and accessible
* Scan information directly to smart device or computer
* Can be used with headphones
* Eliminate the need for a reader during assessment and exams

Things to consider:

* Cost
* Needs practise for it to be most reliable
* Motor control and coordination to hold pen at certain angle

Who would benefit:

* Students that struggle with reading and recalling written information i.e. dyslexia
* Students that want to be more independent during tests and assessments
* SEND and EAL students
* Students with some visual difficulties