| G Definition | Characteristics | Academic Difficulties | Interventions |
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| involves knowledge of one's culture, as well as verbal or language-based knowledge that has been developed during general life experiences and formal schooling. | Difficulty acquiring vocabulary and knowledge Difficulty comprehending written and spoken language Difficulty with fact based/informational questions Use of simplistic sentence structures and lack of variety in language Difficulties with synonyms, antonyms and analogies Difficulty identifying similarities and differences Difficulty using context clues | Reading Decoding The words the student is attempting to decode is not in his vocabulary Comprehending due to vocabulary Math Understanding math terminology Understanding vocabulary in word problems Writing Grammar Lack of development of ideas & descriptive elaboration Awkward phrasing and unconventional grammar | Prior to and after reading, have the student relate an event or character in the story to his/her own life Frequent practice with and exposure to words Research word origins to enhance meaning Include supportive modalities (e.g. visuals, gestures) to increase understanding - Picture It - Sentence Pantomime Teach morphology Provide a language-enriched environment - KWL strategy - Use a variety games and activities for vocabulary reinforcement - Interactive word walls Work on vocabulary building - Vocabulary Word Map - Semantic Map - Describe a Picture - Words in Context - Sketching for Vocabulary - Vocabulary Journal Relate new information to student's own experiences - Record multiple real life examples of vocabulary words Use of graphic organizers - Word Webs - Semantic Grid to show relationship - Cause and Effect - Venn Diagram or T chart Use instructional materials to build lexical knowledge - www.harcourtschool.com - www.vocabulary.co.il/english-language-games - www.jumpstart.com |

| G Definition | Characteristics | Academic Difficulties | Interventions |
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| is the ability to reason, form concepts, and solve problems that are unfamiliar. Involves inductive and deductive reasoning. | Difficulty following sequences Inability to recognize cause and effect relationships Inability to make decisions and solve problems Difficulty organizing and classifying ideas Difficulty seeing implication for the broader application of learned rules Difficulty developing new solutions Difficulty solving logic puzzles Difficulty transferring or generalizing learning | Reading Drawing inferences Determining main idea Math Problem Solving Reasoning Apprehending relationships between numbers Limited mental math skills Writing Generalizing concepts Developing a theme Comparing and contrasting ideas Poor narrative sequencing | Use demonstrations to externalize the reasoning process Use daily Think Alouds to model the thinking process for answering questions and solving problems Address all levels of Bloom's taxonomy to teach thinking and questioning skills Review problem solving process Guided practice Targeted feedback Cooperative Learning Compare new concepts to previously learned information Provide daily practice of reasoning skills by using real-life questions and problems Provide a graphic organizer Story Maps Story Sequence Provide writing organizers/text patterns Way to sort information Use Planning Strategies Paragraph labeling QTIPS (math problem solving) U R TOPS (Responding to open ended questions) Procedural Self Talk Step Sheet Classificatory Writing |

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| measures the ability to store information, consolidate it and fluently retrieve it later through association. | Frequently knowing material one day and not knowing it the next Repeatedly making the same mistakes Knowing isolated facts but not being able to connect them with related concepts Difficulty remembering details and sequence of stories or events Difficult recalling and completing multistep procedures that have been practiced previously | Reading Accessing phonological skills in order to decode Paraphrasing Math Memorizing math facts Recalling math facts Writing Retrieving vocabulary Note-taking Generating ideas Remembering mechanics of writing | Limit the number of facts, words, concepts presented in one session Use mnemonic strategies to encourage memory and retrieval for new or complex information Teach "chunking" strategies Repeated practice with and review of newly presented information Build in wait time for student with fluency of retrieval is an issue Provide overlearning, repetition, and review of concepts Prime memory prior to teaching Use of graphic organizers Use different teaching modalities Vocabulary Cartoons Sentence Pantomime Giving directions in multiple formats Rehearsal strategies Repeated rehearsal Peer help with rehearsal Rehearse information immediately after learning it Teach student to rehearse information with parents Rehearse in different ways (e.g., writing, acting, speaking). Have a student paraphrase information read (e.g., Read-Ask-Paraphrase) Method of Loci Visualization Imagining yourself in the scene Using locations to remember information |

| G Definition | Characteristics | Academic Difficulties | Interventions |
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| is the ability to perform simple, repetitive, cognitive tasks quickly and fluently. It is measured under pressure to maintain focused attention. | Difficulty with efficiency in processing information Lose focus when under time constraints Slow to complete work Difficulty understanding lengthy directions or lectures Difficulty with tasks involving rapid hand/eye coordination Difficulty taking notes with speed and ease Difficulty expressing self easily and efficiently | Reading Fluency Student has the ability to blend and segment phonemes however does it at a much slower rate Math Automaticity Slow computational speed Writing Limited output Slow writing | Build fluency through instant letter/word recognition procedure Provide extra visual structure on worksheets and assignments (arrange problems in boxes) Books on tape Choral Repeated Reading Peer Assisted Learning Strategies (PALS) Use CLOZE procedure for writing assignments Have student preview important parts of text to facilitate reading speed Reading end of chapter summaries before starting chapter Repeated practice Repeated reading Flash cards Math facts through incremental rehearsal Self-monitoring of productivity to increase fluency Allow sufficient time to formulate a response During oral discussions prompt student ahead of time that a response will be needed Speed drills Reading relay for fluency Speedy Alphabet Arch Hungry Letter Mouse Online activities www.arcademicskillbuilders.com |

| G Definition | Characteristics | Academic Difficulties | Interventions |
|---|--|--|---|
| is the ability to analyze and synthesize visual information. Orthographic processing is listed under <i>Gv</i> . Orthography refers to the visual patterns of the written language. | Difficulty differentiating mathematical signs Trouble remembering how a whole word looks Trouble remembering letter sequences Spelling approach over-relies on phonology Uneven spacing of letters and numbers Inaccurately reading maps, pictures, charts or graphs Unable to accurately judge speed and distance Poor spatial planning of page Difficulty seeing visual patterns Difficulty tracking and scanning | Reading Orthographic coding (using visual features of letters to decode) Sight-word acquisition Using charts and graphs Comprehension of text using spatial concepts Math Number alignment during computation Reading and interpreting graphs Writing Spelling sight words Spatial planning during writing Formation of letters | Provide oral explanation for visual concepts (e.g. explain graphs and charts) Use multisensory teaching techniques Capitalize on students' phonemic skills for decoding Teach orthographic strategies for decoding Cover-Copy-Compare Word length Shape of word Read naturally RAVE-O Great Leaps Reading Enhance spatial orientation Play verbal directions game Give directions and instructions in terms of physical spatial relationships Have students take notice when they are using spatial orientation in every subject Encourage student to describe where an object is in relation to another object Encourage student to notice their spatial perspective as well as others Teach note taking strategies Cornell Outlining Use aids to support visual tracking Graph paper to support number alignment Allow student to use a place marker or follow with finger when reading Provide a card with a "window" cut out to highlight small amounts of information at a time Highlight or color code important information |

| G Definition | Characteristics | Academic Difficulties | Interventions |
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| involves the ability analyze, and synthesize auditory information. Phonological Processing is listed under Ga. | Difficulty filtering nonessential auditory information Mishear words (e.g. hear circus for circle) Difficulty recognizing partially heard words Difficulty learning a foreign language Recognize larger words parts before individual phonemes Displays better understanding when oral information is accompanied with visual support | Reading Acquiring and using phonetics Recognizing and producing rhymes Difficulty segmenting words into parts Blending phonemes Math Reading word problems Writing Spelling Note-taking | Sight-word reading Identify root words or sounds and have the student produce variation of the word Teach comprehension monitoring (e.g., does the word I heard/read make sense in context?) Build in time for clarification regarding missed or misheard items during lecture Teach segmenting Poker chip method Introduce segmenting by manipulation first, last, medial Emphasize sound-symbol associations in teaching decoding and spelling Letter Sound Bingo Letter Sound Placemat Write the room Read books to the student that play with and manipulate letters sounds Dr. Seuss Books Recite poems Provide instructional supports Guided notes Visual aids Demonstration or concrete example Provide phonological awareness activities (e.g., rhyming, alliteration, imitation, songs) Soundbags (e.g. phoneme matching activity) Rhyming games (Which word rhymes?) www.spellingcity.com |

| G Definition | Characteristics | Academic Difficulties | Interventions |
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| is the ability to hold information in immediate awareness, use it within a few seconds, and manipulate it to carry out a goal. | Difficulty following directions with multiple steps Difficulty repeating information Losing train of thought easily Commonly asking for the same information over and over | Reading Reading comprehension Decoding Paraphrasing Math Rote memorization Remembering procedures to complete problems Multi-step problems and regrouping Extracting information from problems Writing Spelling multisyllabic words Redundancy in writing Note-taking | Highlighting important information Have student write all the steps and show all work to math problems Give the student one task to perform at a time. Introduce the next task only when the student has successfully completed the previous one. Teach chunking strategies Repeated practice and review Paraphrase what is said Use of mnemonics/memory strategies Acrostic phrases or sentences and acronyms Use music or rhythm Give information in multiple formats Use visual, verbal, examples and demonstrations Teach student to use different formats to process information Drawing picture or picture graphs of information given Create kinesthetic symbols for what needs to be learned (e.g., using body to form letters) Teach rote strategies Basic rehearsal and simple repetition Teach semantic rehearsal Creating a sentence to remember information Provide instructional supports Guided notes, Study notes, Brief outlines Visual/Charts/Tables for references Use of visual imagery Rhyming pegword method Method of Loci Vocabulary Cartoons Teach student to create mental pictures |

| Definition | Characteristics | Academic Difficulties | Interventions |
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| Executive Function Responsible for a person's ability to engage in purposeful, organized, strategic, and goal-directed behavior. | Difficulty identifying goals and setting goals Begins tasks without necessary materials Difficulty getting started on tasks Does not allocated sufficient time to complete tasks Skips steps in multiple step problems Does not know what is important Disorganized Shifting between activities Does not check work for errors Difficulty foreseeing consequences Difficulty focusing and sustaining attention and effort | Quick response leads to misinterpreting or misreading words Sequencing and telling a story chronologically Extracting main idea and other important information Drawing inferences from text Does not apply known strategies for comprehension Math Remembering order of operations Prioritizing what is important when solving word problems Attending to math signs Writing Generating ideas to write about Sequencing a story Prioritizing main events in the story Lack of elaboration despite knowledge | Directly teach the following strategies Self-Regulation (e.g, Self-Regulated Strategy Development) Self-Monitoring Self-Talk, Think-Aloud When teaching strategies do the following: Determine nature of the problems (e.g. lack of awareness, practice) Ensure student knows what executive skills are Ensure students understands what the strategy is used for When to use the strategy How to use the strategy How to use the strategy Have student reflect on how well the strategy worked for them Provide feedback Create a list of steps of the strategy you want the student to use during a lesson or task. Prompt them to refer to the list when needed. Prior to introducing a task, ask the student to tell you how they plan on completing task (e.g., What questions do you need to be ask yourself do complete this correctly?) Give the student prompts to engage in use of their executive capacities (e.g., Look carefully at every word.). Provide the student with time guidelines and prompts to monitor the length of time it takes to complete an academic task. |