

FIE Information to IEP Development

Cognitive Ability Factor	Relationship to Academic Learning	Area(s) of Concerns	TEKS Strand(s)	Possible Accommodations
<p>Crystallized Intelligence is the knowledge and skills that are learned over a lifetime. It is knowledge that come from prior learning and past experiences</p> <p><input type="checkbox"/> Area of Strength <input type="checkbox"/> Area of Concern</p>	<p>A strong and consistent relationship to reading, writing, and math, such as learning vocabulary, answering factual questions, and comprehending oral/written language all of which are highly predictive of academic success</p>	<p><input type="checkbox"/> Basic Reading <input type="checkbox"/> Reading Comp <input type="checkbox"/> Written Expression <input type="checkbox"/> Oral Expression <input type="checkbox"/> Listening Comp <input type="checkbox"/> Math Calculations <input type="checkbox"/> Math Problem Solving</p>	<p><input type="checkbox"/> Reading /Vocabulary <input type="checkbox"/> Reading /Comprehension <input type="checkbox"/> Writing <input type="checkbox"/> Oral and Written Conventions <input type="checkbox"/> Listening and Speaking <input type="checkbox"/> Number, Operations, and Quantitative Reasoning <input type="checkbox"/> Patterns, Relationships, and Algebraic Thinking <input type="checkbox"/> Geometry and Spatial Reasoning <input type="checkbox"/> Measurement <input type="checkbox"/> Probability and Statistics <input type="checkbox"/> Underlying Process and Mathematical Tools <input type="checkbox"/> Scientific Investigation and Reasoning <input type="checkbox"/> Social Studies Skills</p>	<ul style="list-style-type: none"> • Mnemonics • Pre-teach key vocabulary • Graphic Organizer (ie. Frayer Model) • Addition Chart • Multiplication Chart • Calculator • Cloze • Preferential Seating during whole group instruction to monitor comprehension • Spelling Assistance <ul style="list-style-type: none"> ○ Frequently Misspelled Wordlist ○ Electronic Dictionary • • • •
<p>Fluid Intelligence is the type of thinking an individual may use when faced with a relatively new task that cannot be performed automatically; a problem solving type of intelligence.</p> <p><input type="checkbox"/> Area of Strength <input type="checkbox"/> Area of Concern</p>	<p>A significant relationship to higher level skills in reading, writing, and math, such as problem solving, drawing inferences, mental flexibility, transferring and generalizing, and thinking conceptually.</p>	<p><input type="checkbox"/> Reading Comp <input type="checkbox"/> Written Expression <input type="checkbox"/> Math Calculations <input type="checkbox"/> Math Problem Solving</p>	<p><input type="checkbox"/> Reading/Comprehension <input type="checkbox"/> Writing <input type="checkbox"/> Research <input type="checkbox"/> Number, Operations, and Quantitative Reasoning <input type="checkbox"/> Patterns, Relationships, and Algebraic Thinking <input type="checkbox"/> Geometry and Spatial Reasoning <input type="checkbox"/> Measurement <input type="checkbox"/> Probability and Statistics <input type="checkbox"/> Underlying Process and Mathematical Tools <input type="checkbox"/> Scientific Investigation and Reasoning <input type="checkbox"/> Social Studies Skills</p>	<ul style="list-style-type: none"> • Graphic Organizer • Word Processor • Manipulatives • Addition Chart • Multiplication Chart • Calculator • Cloze • Think Alouds • Preferential Seating during whole group instruction to monitor comprehension • Spelling Assistance <ul style="list-style-type: none"> ○ Frequently Misspelled Wordlist ○ Electronic Dictionary • Peer Assistance • •

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<p>Short–Term Memory is the ability to apprehend and hold information in one’s mind and then use it within a few seconds; includes working memory (ability to attend to, process, and respond to information).</p> <p><input type="checkbox"/> Area of Strength <input type="checkbox"/> Area of Concern</p>	<p>A significant relationship to reading, writing, and math (working memory in particular), such as attending / following directions, recalling sequences, memorizing actual information, listening and comprehending, and taking notes.</p>	<p><input type="checkbox"/> Basic Reading <input type="checkbox"/> Reading Comp <input type="checkbox"/> Written Expression <input type="checkbox"/> Oral Expression <input type="checkbox"/> Listening Comp <input type="checkbox"/> Math Calculations</p>	<p><input type="checkbox"/> Reading <input type="checkbox"/> Writing <input type="checkbox"/> Oral and Written Conventions <input type="checkbox"/> Listening and Speaking <input type="checkbox"/> Number, Operations, and Quantitative Reasoning <input type="checkbox"/> Patterns, Relationships, and Algebraic Thinking <input type="checkbox"/> Geometry and Spatial Reasoning <input type="checkbox"/> Measurement <input type="checkbox"/> Probability and Statistics <input type="checkbox"/> Underlying Process and Mathematical Tools <input type="checkbox"/> Scientific Investigation and Reasoning <input type="checkbox"/> Social Studies Skills</p>	<ul style="list-style-type: none"> • Lesson explicitly taught in short segments • Talk Alouds • Note Taking Guides / Peer–Shared Notes • Place Markers • Graphic Organizers • Mnemonics • Addition/Multiplication Chart • List of Grammar/Mechanics Rules • Frequently Misspelled Word List • Provide extra time to copy information • Seat the student in a location away from distraction in order to optimize attention • • • •
<p>Long–Term Retrieval is the ability to take and store a variety of information (ideas, names, concepts) in one’s mind, then later retrieve it quickly and easily using association</p> <p><input type="checkbox"/> Area of Strength <input type="checkbox"/> Area of Concern</p>	<p>A significant relationship with reading and writing especially during early stages of skill acquisition, such as organizing for retrieval, strategies for recall, and learning and retrieving information</p>	<p><input type="checkbox"/> Basic Reading <input type="checkbox"/> Reading Fluency <input type="checkbox"/> Written Expression <input type="checkbox"/> Oral Expression</p>	<p><input type="checkbox"/> Reading /Beginning Reading Skills <input type="checkbox"/> Oral and Written Conventions <input type="checkbox"/> Listening and Speaking <input type="checkbox"/> Underlying Process and Mathematical Tools <input type="checkbox"/> Scientific Investigation and Reasoning <input type="checkbox"/> Social Studies Skills</p>	<ul style="list-style-type: none"> • Lesson explicitly taught in short segments • List of Steps to Organize Learning • Talk Alouds • Place Markers • Graphic Organizers • Mnemonics • Addition/Multiplication Chart • Math Manipulatives / Calculator • List of Grammar/Mechanics Rules • Frequently Misspelled Word List • Pictorial Models of Fraction Bars / Geometric Figures • • • •

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<p>Auditory Processing is the ability to perceive, analyze, and synthesize patterns among auditory stimuli (sounds) and to discriminate subtle nuances in patterns of sound and speech when presented under distortion conditions.</p> <p><input type="checkbox"/> Area of Strength <input type="checkbox"/> Area of Concern</p>	<p>A significant relationship to reading and writing especially during early stages of skill acquisition, such as acquiring phonics, sequencing sounds, listening, learning foreign language, and musical skills.</p>	<p><input type="checkbox"/> Basic Reading <input type="checkbox"/> Written Expression <input type="checkbox"/> Listening Comp</p>	<p><input type="checkbox"/> Reading/Beginning Reading <input type="checkbox"/> Oral and Written Conventions/Spelling <input type="checkbox"/> Listening and Speaking <input type="checkbox"/> Underlying Process and Mathematical Tools <input type="checkbox"/> Scientific Investigation and Reasoning <input type="checkbox"/> Social Studies Skills</p>	<ul style="list-style-type: none"> • Lesson explicitly taught in short segments • Note Taking Guides / Peer–Shared Notes • Talk Alouds • Place Markers • Graphic Organizers • Accompany oral information with visual materials • Seat the student in a location away from distraction in order to optimize attention • Visual / Tactile Reminders to Stay on Task • Electronic Dictionary • Highlight Key Information • Reading Support <ul style="list-style-type: none"> ○ Parts of Text at Student Request ○ All Text Information ○ Level varies based on student request • •
<p>Processing Speed is the ability to fluently and automatically perform cognitive tasks, especially when under pressure to maintain focused attention and concentration.</p> <p><input type="checkbox"/> Area of Strength <input type="checkbox"/> Area of Concern</p>	<p>A significant relationship to reading, writing, and math especially during early stages of learning, such as completing assignments on time, processing information quickly, taking timed tests, and copying from the board.</p>	<p><input type="checkbox"/> Basic Reading <input type="checkbox"/> Reading Comp <input type="checkbox"/> Reading Fluency <input type="checkbox"/> Written Expression <input type="checkbox"/> Math Calculations <input type="checkbox"/> Math Problem Solving</p>	<p><input type="checkbox"/> Reading <input type="checkbox"/> Writing <input type="checkbox"/> Oral and Written Conventions <input type="checkbox"/> Number, Operations, and Quantitative Reasoning <input type="checkbox"/> Patterns, Relationships, and Algebraic Thinking <input type="checkbox"/> Geometry and Spatial Reasoning <input type="checkbox"/> Measurement <input type="checkbox"/> Probability and Statistics <input type="checkbox"/> Underlying Process and Mathematical Tools <input type="checkbox"/> Scientific Investigation and Reasoning <input type="checkbox"/> Social Studies Skills</p>	<ul style="list-style-type: none"> • Lesson explicitly taught in short segments • Partially completed Note Taking Guide / Peer–Shared Notes • Provide wait time before responding • Provide extra time to copy information • Graphic Organizers • Accompany oral information with visual materials • Seat the student in a location away from distraction in order to optimize attention • Auditory / Visual / Tactile / Verbal Reminders to Stay on Task • Electronic Dictionary • Highlight Key Information • Provide extra time to read text • Word Processing •

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<p>Visual Processing is the ability to think about and generate, perceive, analyze, synthesize, store, retrieve, manipulate, transform, and think with visual patterns and stimuli</p> <p><input type="checkbox"/> Area of Strength <input type="checkbox"/> Area of Concern</p>	<p>Has some relationship to reading fluency and high level math, such as using patterns and designs, sensing spatial orientation and boundaries, and noting visual detail</p>	<p><input type="checkbox"/> Reading Fluency <input type="checkbox"/> Math Calculations <input type="checkbox"/> Math Problem Solving</p>	<p><input type="checkbox"/> Reading/Fluency <input type="checkbox"/> Patterns, Relationships, and Algebraic Thinking <input type="checkbox"/> Geometry and Spatial Reasoning <input type="checkbox"/> Measurement <input type="checkbox"/> Underlying Process and Mathematical Tools <input type="checkbox"/> Scientific Investigation and Reasoning</p>	<ul style="list-style-type: none"> • Color Coding to illustrate steps • Manipulatives • Graphic Organizers • Color Overlays • Limit or structure copying activities • Scratch paper • • • •