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## Alternate Assessment 2018 Domain Resource Sheet

The following domains are based on the [Essential Elements](#) (EE), and [Vermont's Next Generation Science Standards](#) (NGSS). The standards are specific statements of knowledge and skills linked to the grade-level expectations identified in the Common Core State Standards (CCSS) and NGSS. The purpose of the Essential Elements is to build a bridge from the content in the CCSS to academic expectations for students with the most significant cognitive disabilities. The tables below provide topics for expected student learning within each domain for Math, English Language Arts (ELA) and Science for this population of students. These tables provide the information necessary to align the areas of instruction to the 2018 alternate assessment.

### Science

Earth and Space Science	Life Science	Physical Science
<ul style="list-style-type: none"> <li>• Universe and it's stars</li> <li>• Earth and the solar system</li> <li>• History of the planet</li> <li>• Earth materials and systems</li> <li>• Plate tectonics &amp; large-scale system interactions</li> <li>• Role of water</li> <li>• Weather and climate</li> <li>• Biogeology</li> <li>• Natural resources</li> <li>• Natural hazards</li> <li>• Human impacts on earth systems</li> <li>• Global climate change</li> </ul>	<ul style="list-style-type: none"> <li>• Organisms' structure and function</li> <li>• Growth and development (life cycles)</li> <li>• Energy flow in organisms (photosynthesis, calories, etc.)</li> <li>• Information processing</li> <li>• Inheritance of traits</li> <li>• Variation of traits</li> <li>• Evidence of common ancestry and diversity</li> <li>• Natural selection</li> <li>• Adaptation</li> <li>• Biodiversity and humans</li> <li>• Interdependent relationships in ecosystems</li> <li>• Cycles of matter and energy transfer</li> <li>• Ecosystem dynamics</li> <li>• Social interactions and group behavior</li> </ul>	<ul style="list-style-type: none"> <li>• Structure of matter</li> <li>• Chemical reactions</li> <li>• Forces and motion</li> <li>• Types of interactions</li> <li>• Definitions of energy</li> <li>• Conservation of energy and energy transfer</li> <li>• Relationship between energy and forces</li> <li>• Energy in chemical processes &amp; everyday life</li> <li>• Wave properties</li> <li>• Electromagnetic radiation</li> <li>• Information technologies and instrumentation</li> </ul>

## English/Language Arts

Reading: Literary Texts	Reading: Informational Texts	Reading: Foundational Skills
<ul style="list-style-type: none"> <li>• Ask and answer questions</li> <li>• Associate details with events</li> <li>• Describe characters and character's growth/feelings</li> <li>• Complete literal sentences from text</li> <li>• Beginning, middle and end of a story</li> <li>• Personal point of view</li> <li>• Illustration's connection to setting/event</li> <li>• Common elements in stories</li> <li>• Read and understand text</li> <li>• Narrator</li> <li>• Multi-meaning words</li> <li>• Themes in stories, myths or texts</li> <li>• Structure of texts (poems, stories, dramas, etc.)</li> <li>• Explicit information vs inferences</li> </ul>	<ul style="list-style-type: none"> <li>• Who and what questions</li> <li>• Main idea, supporting details</li> <li>• Order events</li> <li>• Text features to locate information</li> <li>• Characters, settings, stories from multiple cultures</li> <li>• Use text to answer questions, locate information</li> <li>• Meaning of domain specific words/phrases</li> <li>• Explicit information vs inferences</li> <li>• Title of texts</li> <li>• Comparison of sources for same event</li> <li>• Author's point of view</li> </ul>	<ul style="list-style-type: none"> <li>• Letter sound knowledge</li> <li>• Words in texts</li> <li>• Word endings</li> <li>• Word meanings in text</li> </ul>
Writing	Speaking and Listening	Language
<ul style="list-style-type: none"> <li>• Express information with details</li> <li>• Opinions about topics</li> <li>• Events or personal experiences</li> <li>• Express more than one idea</li> <li>• Plan and revise own writing</li> <li>• Interacting and collaborating with others</li> <li>• Research</li> <li>• Variety of tasks, purposes, and audiences</li> </ul>	<ul style="list-style-type: none"> <li>• Collaborative discussions</li> <li>• Ask or answer questions</li> <li>• Recount personal experience with details</li> <li>• Multimedia presentation</li> <li>• Using communication to clarify</li> <li>• Formal vs informal communication</li> <li>• Identify main idea</li> <li>• Presentation with audio/visual</li> </ul>	<ul style="list-style-type: none"> <li>• Standard English conventions and grammar usage</li> <li>• Desired outcomes when communicating</li> <li>• Word meaning</li> <li>• Word relationship and use</li> <li>• Spatial and temporal relationship words</li> </ul>

## Math

The Number System (includes: Base 10, Fractions, Measurement and Data, Ratios and Proportional Relationships)	Geometry	Expressions and Equations (includes Operations and Algebraic Thinking, Functions)	Statistics and Probability
<ul style="list-style-type: none"> <li>• Equal shares</li> <li>• Relationship between unit fractions</li> <li>• Positive and negative numbers</li> <li>• Adding fractions</li> <li>• Multiplication/division problems</li> <li>• Fractions as decimals</li> <li>• Comparing numbers (greater than, less than, equal to)</li> <li>• Rounding</li> <li>• Models for 10's and 1's</li> <li>• Skip counting</li> <li>• Addition, subtraction, multiplication, division</li> <li>• Whole/part relationship</li> <li>• Equal sized parts</li> <li>• Multiple representations</li> <li>• Models of fractions</li> <li>• Time, digital/analog clock</li> <li>• Volume, mass, length, area</li> <li>• Measurement tools</li> <li>• Unit types and sizes</li> <li>• Representations (graphs)</li> <li>• Simple ratios</li> <li>• Ratio to describe a relationship</li> </ul>	<ul style="list-style-type: none"> <li>• Attributes of shapes</li> <li>• Line and line segments</li> <li>• Angles/parallel lines</li> <li>• Equal areas in shapes</li> <li>• Unit squares</li> <li>• Perimeter measurements</li> <li>• Formula for area, perimeter, and volume</li> <li>• Congruent shapes</li> </ul>	<ul style="list-style-type: none"> <li>• What question/operation in problems</li> <li>• Develop equations, solve for unknown</li> <li>• Repeated addition (multiplication)</li> <li>• Numerical patterns and predictions</li> <li>• Number sentences</li> <li>• Equations for real world problems</li> <li>• Equivalent expressions</li> <li>• Equality concept in equations</li> <li>• Exponents</li> <li>• Compose/decompose numbers</li> <li>• Graph ratios</li> <li>• Function table</li> <li>• Graph as relationship between two quantities</li> </ul>	<ul style="list-style-type: none"> <li>• Data tables</li> <li>• Data distributions</li> <li>• Multiple graphical representations</li> <li>• Probability of events</li> </ul>