

# Think Tank (Thinking Mathematically and Problem Solving) and TEKS

## 5<sup>th</sup> Grade

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Prickly Problems	4AR	3NO	4AR	3NO	4AR	6GM	3NO	2NO	5GM	5GM	5GM	2NO	4AR	3NO	4AR	9DA	2NO	2NO	6GM	4AR
Brain Boosters	6GM	9DA	4AR	3NO	4AR	3NO	4AR	5GM	3NO	4AR	4AR	3NO	3NO	4AR	2NO	4AR	5GM	9DA	3NO	4AR
Cranium Crackers	8GM	3NO	3NO	9DA	6GM	7GM	5GM	5GM	4AR	3NO	3NO	4AR	4AR	2NO	4AR	2NO	3NO	2NO	3NO	9DA
Quick Quizzes	9DA	3NO	9DA	6GM	6GM	4AR	6GM	6GM	3NO	4AR	3NO	9DA	3NO	2NO	4AR	3NO	4AR	3NO	4AR	2NO
Head Polishers	6GM	3NO	3NO	3NO	6GM	3NO	9DA	4AR	6GM	2NO	2NO	9DA	3NO	4AR	3NO	4AR	3NO	3NO	4AR	6GM
Mental Matters	6GM	3NO	3NO	9DA	6GM	6GM	2NO	2NO	4AR	9DA	2NO	4AR	3NO	4AR	2NO	6GM	3NO	4AR	3NO	3NO
Cracker Jacks	9DA	6GM	3NO	3NO	9DA	3NO	4AR	9DA	2NO	4AR	6GM	4AR	4AR	6GM	3NO	3NO	7GM	3NO	3NO	3NO
Thorough Thinkers	1C	3NO	4AR	6GM	4AR	6GM	4AR	9DA	4AR	4AR	3NO	3NO	2NO	4AR	9DA	2NO	3NO	3NO	2NO	9DA
Cool Heads	3NO	4AR	6GM	4AR	4AR	7GM	6GM	3NO	9DA	3NO	2NO	3NO	3NO	9DA	3NO	2NO	2NO	3NO	3NO	4AR
Wise Wizards	3NO	3NO	2NO	4AR	3NO	3NO	9DA	2NO	6GM	6GM	4AR	2NO	6GM	2NO	3NO	4AR	6GM	1A	4AR	4AR
Super Sleuths	4AR	3NO	7GM	3NO	9DA	3NO	2NO	8GM	4AR	3NO	3NO	3NO	6GM	2NO	9DA	2NO	5GM	5GM	3NO	3NO
Mega Minds	9DA	2NO	8GM	3NO	4AR	4AR	5GM	7GM	6GM	3NO	2NO	4AR	3NO	2NO	3NO	2NO	4AR	5GM	2NO	4AR

## Texas Essential Knowledge and Skills

### Standard 1 - Mathematical process standards

The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:

- (A) apply mathematics to problems arising in everyday life, society, and the workplace;
- (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution;
- (C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems;
- (D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate;
- (E) create and use representations to organize, record, and communicate mathematical ideas;
- (F) analyze mathematical relationships to connect and communicate mathematical ideas; and
- (G) display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.

### Standard 2 - Number and Operations (2NO) – Positive Rational Numbers - Relationships

The student applies mathematical process standards to represent, compare, and order positive rational numbers and understand relationships as related to place value.

### Standard 3 – Number and Operations (3NO) – Positive Rational Numbers - Computation

The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy.

### Standard 4 – Algebraic Reasoning (4AR) – Expressions and Equations

The student applies mathematical process standards to develop concepts of expressions and equations.

### Standard 5 – Geometry and Measurement (5GM) – Classify 2D

The student applies mathematical process standards to classify two-dimensional figures by attributes and properties. The student is expected to classify two-dimensional figures in a hierarchy of sets and subsets using graphic organizers based on their attributes and properties

### Standard 6 – Geometry and Measurement - (6GM) - Volume

The student applies mathematical process standards to understand, recognize, and quantify volume.

### Standard 7 – Geometry and Measurement – (7GM) – Metric and Customary Units

The student applies mathematical process standards to select appropriate units, strategies, and tools to solve problems involving measurement. The student is expected to solve problems by calculating conversions within a measurement system, customary, or metric.

### Standard 8 – Geometry and Measurement – (8GM) – Coordinate Plane

The student applies mathematical process standards to identify locations on a coordinate plane.

### Standard 9 – Data Analysis – (9DA)

The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data.

**Note to Teachers:** The Think Tank problems have been correlated to the Grade Level Standards in 5th Grade. Please refer to the TEKS and the grade level student expectations. This correlation is only a starting point in your instructional planning.