

# Think Tank (Measurement and Geometry) and TEKS 6th Grade

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
Steady Starters	11MD	8EER	8EER	8EER	8EER	8EER	11MD	8EER	11MD	8EER	8EER	8EER	8EER	11MD	9EER	11MD	3NO	8EER	8EER	8EER	
Brain Busters	8EER	8EER	DA	8EER	8EER	8EER	8EER	9EER	8EER	8EER	5P	8EER	8EER	8EER	8EER	8EER	5P	8EER	8EER	8EER	
Fact Finders	8EER	4P	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	11MD	4P	8EER	5P	4P	8EER	4P	8EER	8EER	
Game Changers	8EER	8EER	5P	8EER	8EER	8EER	5P	8EER	8EER	8EER	2NO	8EER	8EER	8EER	11MD	8EER	8EER	8EER	8EER	8EER	
Head Expanders	11MD	8EER	8EER	8EER	8EER	8EER	5P	5P	8EER	8EER	8EER	2NO	8EER	8EER	11MD	8EER	8EER	8EER	8EER	11MD	
Master Minds	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	11MD	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	11MD	8EER
Ponder Puzzles	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	5P	8EER	8EER	8EER	8EER	11MD	8EER	8EER	8EER	8EER	8EER	8EER	
Problem Posers	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	
Tough Teasers	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	5P	8EER	8EER	8EER	11MD	8EER	8EER	8EER	8EER	8EER	8EER	8EER	
No Brainers	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	6EER	8EER
Quirky Questions	8EER	8EER	11MD	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	8EER	5P	8EER	8EER	8EER	8EER	8EER	8EER	
Ready Riddles	8EER	8EER	8EER	8EER	5P	8EER	8EER	8EER	8EER	8EER	5P	3NO	8EER	8EER	5P	8EER	8EER	8EER	8EER	8EER	5P

## 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) – Rational Numbers

The student applies mathematical process standards to represent and use rational numbers in a variety of forms.

### Standard 3 – Number and Operations (3NO) – Computation

The student applies mathematical process standards to represent addition, subtraction, multiplication, and division while solving problems and justifying solutions.

### Standard 4 – Proportionality (4P) – Ratios and Percents

The student applies mathematical process standards to develop an understanding of proportional relationships in problem situations

### Standard 5 – Proportionality – (5P) Ratios, Percents, using scale factors, tables

The student applies mathematical process standards to solve problems involving proportional relationships.

### Standard 6 – Expressions, Equations, and Relationships (6EER) – Independent/dependent variables

The student applies mathematical process standards to use multiple representations to describe algebraic relationships.

### Standard 7 – Expressions, Equations, and Relationships (7EER) – Order of operations

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

### Standard 8 – Expressions, Equations, and Relationships (8EER) – Geometry Relationships

The student applies mathematical process standards to use geometry to represent relationships and solve problems.

### Standard 9 – Expressions, Equations, and Relationships (9EER) – One Variable

The student applies mathematical process standards to use equations and inequalities to represent situations.

### Standard 10 – Expressions, Equations, and Relationships (10EER) - One Variable

The student applies mathematical process standards to use equations and inequalities to solve problems.

### Standard 11 – Measurement and Data (11MD) – Coordinate Plane

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

### Standard 12 – Measurement and Data (12MD) – Represent Numerical Data

The student applies mathematical process standards to use numerical or graphical representations to analyze problems.

### Standard 13 – Measurement and Data (13MD) – Interpret Numerical Data

The student applies mathematical process standards to use numerical or graphical representations to solve problems.

### Developmental Activity- (DA)

DA indicates that the content is developmental, intended to build foundational skills for mathematics that will be taught at a later stage

**Note to Teachers:** The Think Tank problems have been correlated to the Grade Level Standards in 6<sup>th</sup> Grade. Please refer to the TEKS and the grade level student expectations. This correlation is only a starting point in your instructional planning.