



MATH

Step Up to the TEKS

TEKS checklist that breaks each standard into its fundamental components for clearer understanding

GRADE CATEGORY 5
The student will demonstrate an understanding of how to perform operations and represent algebraic relationships.

TEKS 5.4C
The student is expected to generate a numerical pattern when given a rule in the form $y = ax$ or $y = x + a$ and graph.

Verb

- generate

Concept

- numerical patterns in the form $y = ax$ or $y = x + a$

How

- given a rule
- given a table

The Essentials
The focus of this TEKS is for students to generate a numerical pattern when given a rule. The rules will be given in one of two forms $y = ax$ (multiplicative) or $y = x + a$ (additive). This standard is builds to concepts of proportional and non-proportional relationships developed in middle school. Students need to understand that each input has a specific output based on with multiplication or addition.

Verb Glossary

Verbs	Verbs
<ul style="list-style-type: none"> add, subtract, multiply, and division - mathematical operations balance - to make both sides equal classify - organize by attributes compare - look for similarities and differences between two or more items. define - to give the meaning describe - to tell or show the process determine - to decide on the outcome develop - to elaborate or expand an idea estimate - to approximate explain - to make clear through words or process 	<ul style="list-style-type: none"> generate - to create new graph - to place points on a graph identify - to recognize order - to arrange methodically recognize - to identify represent - to portray or depict, such as graph, tables, equations or verbal round - to estimate simplify - to make an expression in a different form, simpler solve - to find the answer to an equation or inequality use - to employ, make use of

Verb glossary helps teachers better understand the expected student actions as specified for each TEKS

Vertical Alignment

GRADE 3 TEKS 3.5E represent real-world relationships using number pairs in a table and verbal descriptions (RS)

GRADE 4 TEKS 4.5B represent problems using an input-output table and numerical expressions to generate a number pattern that follows a given rule representing the relationship of the values in the resulting sequence and their position in the sequence (RS)

GRADE 5 TEKS 5.4C generate a numerical pattern when given a rule in the form $y = ax$ or $y = x + a$ and graph

GRADE 6 TEKS 6.4A compare two rules verbally, numerically, graphically, and symbolically in the form of $y = ax$ or $y = x + a$ in order to differentiate between additive and multiplicative relationships (RS)

GRADE 7 TEKS 7.4A represent constant rates of change in mathematical and real-world problems given pictorial, tabular, verbal, numeric, graphical, and algebraic representations, including $d = rt$ (RS)

Vertical alignment that clarifies the scope for each standard for grade levels directly before and after the current grade level
Easily identify opportunities for RTI
Easily identify opportunities for enrichment

GRADE Process Standards 5
The student uses mathematical processes to acquire and demonstrate mathematical understanding.

TEKS 5.1D
The student is expected to communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate.

Verb

- communicate

Concept

- mathematical ideas
- reasoning
- implications of mathematical ideas and reasoning

How

- multiple representations including
 - symbols
 - diagrams
 - graphs
 - language

The Essentials
The focus of this TEKS is for students to use multiple representations of the same data to communicate mathematical ideas and reasoning. The data is not interpreted or changed (see 1E) but represented in more than one way.
Process Standards drive the methodology of instruction in the classroom and should be incorporated into each lesson. The concept of each Readiness and Supporting Standard is the focus of content in lessons.

Clarification of the purpose of process standard TEKS for classroom and assessment integration

TEKS Checklists

The Step Up to the TEKS Science Series lesson planning component is called the TEKS Checklist.

The TEKS Checklists combine an in-depth understanding of the TEKS along with vertically aligned expectations from surrounding grade levels. This tool was developed by teachers for teachers as a must-have road map!

Wondering what to do for RtI? The vertical alignment helps to understand the concepts that were taught in the previous grade to determine a place to start.

The TEKS Checklist cards are designed to make sure all aspects of the TEKS are covered in both classroom instruction, as well as, assessments.

TEKS Checklists Contain:

- TEKS Breakdown for ALL TEKS, including those not tested and Process TEKS
- Essentials with pointers and tips for each TEKS
- Vertical alignment for each TEKS
- Verb Glossary