Pacing Calendar | Castle Hills Pacing Calendar | 90 Minute Plan | 90 Minute Plan(Word)

Kindergarten Mathematics Sequence

Within a well-balanced mathematics curriculum, the primary focal points at Kindergarten are developing whole-number concepts and using patterns and sorting to explore number, data, and shape.

5. Geometry
(6 weeks)

Directly compare the attributes of length, area, weight/mass, capacity; and/or relative temperature; use comparative language to solve problems and answer questions; use time to describe, and compare and order events, and situations.

K.3A	***share*** a whole by separating it into two equal parts
K.3B	***explain*** why a given part is half of the whole
K.7A	***describe*** one object in relation to another using informal language such as **over**, **under**, **above**, and **below**
K.7B	***place*** an object in a specified position
K.8A	***describe*** and ***identify*** an object by its attributes using informal language
K.8B	***compare*** two objects based on their attributes
K.8C	***sort*** a variety of objects including two- and three-dimensional geometric figures according to their attributes and ***describe*** how the objects are sorted
***K.9A**	***describe*** and ***compare*** the attributes of real-life objects such as balls, boxes, cans and cones or models of three-dimensional geometric figures
***K.9B**	***recognize*** shapes in real-life three-dimensional geometric figures or models of three-dimensional geometric figures
***K.9C**	***describe***, ***identify*** and ***compare*** circles, triangles, rectangles and squares (a special type of rectangle)
K.13A	***identify*** mathematics in everyday situations.
K.13B	***solve*** problems with guidance, that incorporate processes of ***understanding*** the problem, ***making*** a plan, ***carrying*** out the plan, and ***evaluating*** the solution for reasonableness
K.13C	***select*** or ***develop*** an appropriate problem-solving strategy including ***drawing*** a picture, ***looking*** for a pattern, systematic ***guessing*** and ***checking***, or ***acting*** it out in order to ***solve*** a problem
K.13D	***use*** tools such as real objects, manipulatives, and technology to ***solve*** problems
K.14A	***communicate*** mathematical ideas using objects, words, pictures, numbers and technology
K.14B	***relate*** everyday language to mathematical language and symbols
K.15	***justify*** his or her thinking using objects, words, pictures, numbers and technology

TEKS have been color coded to show if they are at an ***introductory point***, an ***ongoing TEKS***, or at ***a mastery level.*** Below is the key for the color coding.

K.1A - A ***TEKS*** is introduced for the first time as a focus of learning within a unit of instruction.

K.5 – Last time a ***TEKS*** will be a focus of learning within the regular unit of instruction.

K.5-** ***TEKS is both introduced and expected to be mastered.

K.1A – A ***TEKS*** has already been introduced and does not yet need to be mastered.

NEISD Kindergarten Unit 5

Pacing Calendar
Castle Hills Pacing Calendar

Kindergarten Mathematics Sequence

90 Minute Plan
90 Minute Plan (Word)

Kinder Unit 5: Geometry
(6 weeks)

Content TEKS	K.3A	K.3B	K.7A	K.7B	K.8A	K.8B	K.8C	*K.9A	*K.9B	*K.9C
Processing TEKS	K.13A	K.13B	K.13C	K.13D	K.14A	K.14B	K.15			
Continuing Threads	K.1A	K.1B	K.1C	K.2A	K.2B	K.4				

Clarifying Activities

K – 5 Vocabulary

English Spanish

Primary Resources

Investigations in Number, Data, and Space	
Unit 5: Make a Shape, Build a Block	
Investigation 1: Describing and Making 2-D Shapes Sessions 1.1 thru 1.6	K.7A,B K.8A,B,C K.9A,B,C K.13A,B,C,D K.14A,B K.15
Investigation 2: Making and Combining 2-D Shapes Sessions 2.1 thru 2.6	K.7A,B K.8A,B,C K.9A,B,C K.13A,B,C,D K.14A,B K.15
Investigation 3: Describing, Making, and Combining 3-D Shapes Sessions 3.1 thru 3.8	K.7A,B K.8A,B,C K.9A,B,C K.13A,B,C,D K.14A,B K.15
Approximate Timeframe: 20 days	
Content TEKS NOT addressed: K.3A,B	

enVisionMATH Texas	
Topic	**TEKS**
Topic 7: Fractions **Lesson 7-1** **Lesson 7-2** **Lesson 7-3** **Lesson 7-7**	K.3A,B K.13A,B,C K.14A K.15
Topic 12: Geometry	K.8A,B,C K.9A,B,C K.13D K.14A K.15
Approximate Timeframe: 11 days	
Content TEKS NOT addressed: K.7A,B	

Investigations Texas Curriculum Unit	**When to Implement**	**Texas Student Activity Book**	**TEKS**
Activity 8 – Sort Objects, p.28	**After** Unit 5 – Invest. 3, session 3.6	Pg 19	K.8C
Activity 18 – Equal Parts, p.38	**After** Unit 5	Pg 38	K.3A,B

NEISD Kindergarten Unit 5

Joint Usage Suggestion

The following suggestion incorporates enVisionMATH and Investigations curriculum together in a sequenced plan to address the TEKS for this unit of study. The suggestion is listed in a sequence that incorporates the use of both resources for designing your instruction.

When the joint usage plan exceeds the allotted timeframe according to the NEISD Math Sequence, choices should be made by the teacher based on the needs of the students. For example, lessons might be shortened, combined or used as supplemental reinforcement materials (workstations, homework, tutoring, etc.).

Begin with **Investigations** Make a Shape, Build a Block – Investigation 1: Describing and Making 2-D Shapes	**Unit 5 – Make a Shape, Build a Block** **Investigation 1 –** Describing and Making 2-D Shapes **Sessions:** 1.1 – Shape Pictures – **ASSESSMENT CHECKLIST** 1.2 – Circles and Rectangles – **ongoing assessment** 1.3 – Triangles and Squares – **ongoing assessment** 1.4 – Clay Shapes – **ASSESSMENT CHECKLIST** 1.5 – Shapes on the Geoboard – **ongoing assessment** 1.6 – Our Book of Shapes	TEKS: K.7A,B K.8A,B,C K.9A,B,C K.13A,B,C,D K.14A,B K.15
Investigations Make a Shape, Build a Block – Investigation 2: Making and Combining 2-D Shapes	**Unit 5- Make a Shape, Build a Block** **Investigation 2-** Making and Combining 2-D Shapes **Sessions:** 2.1 - Shape Mural – **ongoing assessment** 2.2 – Pattern Block Puzzles – **ASSESSMENT CHECKLIST** 2.3 – Fill the Hexagons – **ongoing assessment** 2.4 – Combining Shapes – **ongoing assessment** 2.5 – Our Shape Mural 2.6 – Ways to Make a Hexagon – **ongoing assessment**	TEKS: K.7A,B K.8A,B,C K.9A,B,C K.13A,B,C,D K.14A,B K.15
Investigations Investigation 3: Describing, Making, and Combining 3-D Shapes	**Unit 5- Make a Shape, Build a Block** **Investigation 3-** Describing, Making, and Combining 3-D Shapes **Sessions:** 3.1 – Shape Hunt – **ongoing assessment** 3.2 – A Close Look at Geoblocks 3.3 – Copying Cubes and Matching Faces – **ongoing assessment** 3.4 – More Clay Shapes – **ongoing assessment** 3.5 – Geoblock Match-Up – **ongoing assessment** 3.6 – Build a Block – **ongoing assessment**	TEKS: K.7A,B K.8A,B,C K.9A,B,C K.13A,B,C,D K.14A,B K.15
Incorporate in **enVisionMATH Texas**: 7 – Fractions and Ordinals	7-1 – Fractions: Equal Parts 7-2 – Fractions: Halves 7-3 – Problem Solving: Act it Out 7-7 – Problem Solving: Draw a Picture	TEKS: K.3A,B K.13D K.14A K.15
Incorporate in **enVisionMATH Texas**: 12 - Geometry	12-8 – Problem Solving: Use Objects	TEKS: K.13D K.14A K.15
End of Unit Assessment Options:	Investigations End-Of-Unit Assessment, Session 3.7 and 3.8 enVisionsMATH Topic 7 and 12 Tests, Student Book enVisionsMATH ExamView Test Generator: Topic 7 and 12	
Assessment Link	www.pearsonsuccessnet.com	
Investigation Links	Unit 5 Masters Sp.	
	Approximate Timeframe: 21 Days	
Content TEKS NOT addressed: None		

Supplemental Resources

Problem Solving
Exemplars Justin's Placemat PK-K Math A New Shape PK-K Math A Paper Snowman PK-K Math Exemplars Alignment with Investigations Units Exemplars Alignment with TEKS NEISD Exemplars site **NEISD Problems** None

Literature Connections
MathStart by Stuart J. Murphy - none *The Shape of Thins* *Color Zoo* *Shapes, Shapes, Shapes,* *The Shapes Game* *If You Look Around You* *The Greedy Triangle* *Bear in a Square* *Changes, Changes* *So Many Circles, So Many Squares* *Cubes, Cones ,Cylinders, & Spheres* *Two Greedy Bears* *Each Orange Had 8 Slices* *Eating Fractions*

VanDeWalle Series
Teaching Student-Centered Mathematics, K-2 Shape Sorts, p.194 **TEK K.8B,C** What's My Shape, p.195 **TEK K.8A**

Other
Mathematics Their Way Shapes, p. 70-77, 241 **K.8 A,B,C** ***Super Source for Grade K-2*** K-2 Pattern Blocks • Spin to Win **K.8A,B,C** • Three in a Row **K.7A,B K.8A,B,C** • Who Am I? **K.7A,B K.8A,B,C**

Technology Links
* NCTM Illuminations: Internet Based Lessons * Mathbenchmarks.org * PBS Mathline Lessons * Discovering School: Lesson Plans and Clip Art * www.pearsonsuccessnet.com * NEISD Integrated Lessons * NEISD Technology Resources * Pearson In-Service on Demand