

Math				
Timeline (# of days)	Topic	Standards	Key Vocabulary	Connections
20	<input type="checkbox"/> Reasoning about Similarity and Transformations Cluster	NC.8.G.3 NC.8.G.2 NC.8.G.4	<ul style="list-style-type: none"> • Dilation, translations, rotations about origin, reflection across x and y axis, congruence, rotation, two-dimensional figure 	Supports standards: <ul style="list-style-type: none"> • 7th grade standards on similarity and ratio • NC.7.G.1 • NC.8.G.5
30-40	<input type="checkbox"/> Functional Reasoning Cluster	NC.8.F.1 NC.8.F.2 NC.8.F.3 NC.8.F.4 NC.8.F.5 NC.8.EE.8	<ul style="list-style-type: none"> • Function, (x, y) pair, slope intercept, rate of change, linear, non-linear 	Supports standards: <ul style="list-style-type: none"> • Builds on grade 7 equations • 7.RP.2 • 7.EE.4 • 6.EE.2 • 6.RP.3 • 6.EE.9
30	<input type="checkbox"/> Reasoning about Equations and Angles Cluster	NC.8.EE.7 NC.8.G.5	<ul style="list-style-type: none"> • Equation, Inequality, linear equation, infinite solutions, variable, angle relationship, interior angle, exterior angle, parallel 	Supports standards: <ul style="list-style-type: none"> • NC.8.G.4 • NC.7.EE.4 • NC.7.G.2
20	<input type="checkbox"/> Statistical Reasoning Cluster	NC.8.SP.1 NC.8.SP.2 NC.8.SP.3 NC.8.SP.4	<ul style="list-style-type: none"> • Scatter Plot, bivariate data, clustering, outlier, positive or negative association, linear association, nonlinear 	Supports standards: <ul style="list-style-type: none"> • NC.8.EE.7 • NC.7.EE.4 • NC.6.RP.4 • NC.7.RP.2

			association, slope and y-intercept, frequency, relative frequency	<ul style="list-style-type: none"> • NC.6.EE.9
40	<input type="checkbox"/> Reasoning with Rational/Irrational Numbers (and Pythagorean Theorem) Cluster	NC.8.NS.1 NC.8.NS.2 NC.8.EE.2 NC.8.G.6 NC.8.G.7 NC.8.G.8 NC.8.G.9	<ul style="list-style-type: none"> • Irrational number, rational number, square roots, cube roots, Pi, Pythagorean Theorem, volume of cones, cylinder, and sphere 	Supports standards <ul style="list-style-type: none"> • NC.8.EE.7 • NC.6.EE.1 • NC.6.NS.8 • NC.7.G.6 • NC.7.G.4
15	<input type="checkbox"/> Reasoning about Exponents/Scientific Notation Cluster	NC.8.EE.1 NC.8.EE.3 NC.8.EE.4	<ul style="list-style-type: none"> • Integer exponents, equivalent expression, scientific notation 	Supports standards: <ul style="list-style-type: none"> • NC.6.EE.1

NC Check-Ins Assessed Standards		
Check-In 1	Check-In 2	Check-In 3
8.EE.7 8.G.3* 8.G.5 * 8.G.3 will also incorporate skills presented in standards 8.G.2 and 8.G.4.	8.EE.8 8.F.1 8.F.3 8.F.4	8.F.2 8.F.5 8.SP.1 8.SP.2 8.SP.3

Standards/I Can Statements
<ul style="list-style-type: none"> •

Resources

NCDPI Unpacking Documents

<http://www.dpi.state.nc.us/docs/curriculum/mathematics/scos/current/6th-unpacking.pdf>

Illustrative Mathematics

<https://www.illustrativemathematics.org/curriculum>

Open-Up Resources

<https://im.openupresources.org/6/teachers/index.html>

Jo Boaler's Week of Inspiration Math - YouCubed

[Jo Boaler's Week of Inspirational Math - Week 2](#)

There are many other tasks from Boaler's website Youcubed, that can be used to address the mathematics practices and content of 6th grade.

6th EOG Math Weight Distribution

Domain	Grade 6
Ratios and Proportional Relationships	-
The Number System	-
Expressions and Equations	-
The Number System, Expressions and Equations	24-28%
Functions	28-32%
Geometry	24-28%
Statistics and Probability	16-20%
Total	100%