

Florida Mathematics Correlation (Grade 7)

Reference: [Florida Mathematics Standards p. 63 \(PDF\)](#)

Introduction

This document correlates Yenka Mathematics software to the content performance indicators of the Florida mathematics core curriculum. It highlights specific areas of the curriculum that are covered by Yenka Mathematics and points to resources that will be useful when teaching the material.

The terminology we have used in this document is as follows:

- **Product:** this is the relevant Yenka Mathematics product, either [Yenka 3D Shapes](#) or [Yenka Statistics](#). More information about these products can be found on the Yenka web page by following the links.
- **Model:** a pre-made Yenka simulation with step-by-step instructions, which will either teach the pupils part of the curriculum, or give them opportunity to apply the knowledge they already have. These models are found under *Content* when you open Yenka itself, and they are linked to through our website.
- **Tutorial:** a model that explains how to use a particular aspect of the Yenka software. These can be found under *Getting Started* in the *Content* tab of Yenka.

Since the Yenka Mathematics titles are simulators, they will help you to cover other areas of the curriculum too. The final column of the table gives some possible *examples* of how you, or the students, can use Yenka Mathematics to create your own models and cover a wider scope of material. You may wish to look at the *tutorials*, and [training videos](#) provided on the website, to explore more of the potential uses of the software, and show you how to create your own models.



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Geometry and Measurement

Benchmark Code	Benchmark	Product	Content (Model)	Example
MA.7.G.4.1	Determine how changes in dimensions affect the perimeter, area, and volume of common geometric figures and apply these relationships to solve problems.	Yenka 3D Shapes	<ul style="list-style-type: none"> - Area of a rectangle - Area of a triangle 	Students can interact with <i>2D</i> and <i>3D Shapes</i> on Yenka, resize them, and use the various <i>Measurement tools</i> to investigate the effect upon perimeter, area, and volume.
MA.7.G.4.2	Predict the results of transformations and draw transformed figures, with and without the coordinate plane.	Yenka 3D Shapes	Related tutorial: <ul style="list-style-type: none"> - Rotating and resizing shapes 	

Data Analysis

Benchmark Code	Benchmark	Product	Content (Model)	Example
MA.7.S.6.2	Construct and analyze histograms, stem-and-leaf plots, and circle graphs.	Yenka Statistics	<ul style="list-style-type: none"> - Histogram - Bar Chart - Stem and leaf See also tutorial: <ul style="list-style-type: none"> - Graphing data 	Use one of the <i>Example data sets</i> provided, and pupils will add <i>Graphs</i> to the model and analyze its usefulness in displaying the data. Alternatively, students can construct their own data or import it from an Excel spreadsheet using an <i>Empty data set</i> .

Probability

Benchmark Code	Benchmark	Product	Content (Model)	Example
MA.7.P.7.1	Determine the outcome of an experiment and predict which events are likely or unlikely, and if the experiment is fair or unfair.	Yenka Statistics	- Probability scale See also: - Probability and relative frequency	Ask pupils to conduct one of the <i>Probability Games</i> in Yenka Statistics. For example, rolling a dice. They can predict the probabilities of rolling each number, of rolling the same number twice in a row etc. They can then simulate the running of the experiment and compare the experimental results, with their theoretical prediction.
MA.7.P.7.2	Determine, compare, and make predictions based on experimental or theoretical probability of independent or dependent events.			

If you have any questions about Yenka or this document, please contact [Esther Droop](#) or visit www.yenka.com