Ohio Mathematics Correlation (Grade 12)

Reference: Academic Content Standards (PDF)

Introduction

This document correlates Yenka Mathematics software to the content performance indicators of the Ohio 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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Data Analysis and Probability Standard

Area	Indicator	Product	Content (Model)	Example
Statistical Methods	3. Describe the shape and find all summary statistics for a set of univariate data, and describe how a linear transformation affects shape, center and spread.	Yenka Statistics		There are several *example datasets* in Yenka Statistics which pupils can work with, or they can create or import their own data to an *empty dataset.* Students can investigate the data by looking at the defining statistics in the *summary tab*, or adding a graph to the model and considering its shape.
Probability	6. Use theoretical or experimental probability, including simulations, to determine probabilities in real-world problem situations involving uncertainty, such as mutually exclusive events, complementary events, and conditional probability.	Yenka Statistics	Related models: - Combining independent events - Complementary events - Independent and dependent events and tutorial: - Playing probability games	