

Ohio Science Correlation (Grade 7)

Reference: [Academic Content Standards p.126 \(Word document\)](#)

Introduction

This document correlates Yenka Science software to the content performance indicators of the Ohio science core curriculum. It highlights specific areas of the curriculum that are covered by Yenka Science 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 Science product, covering Physics and Chemistry. These products can be used independently of each other, and more information can be found on the [Yenka website](#).
- **Online activity:** these are lesson plans for classroom activities for use with the Yenka software. Students work through these independently by interacting with a Yenka simulation, following notes and answering questions to learn about an aspect of the curriculum material. Some of these lesson kits are suitable for use as a whiteboard presentation, and are referred to as *online demonstrations*.
- **Model:** a short pre-made Yenka model with instructions, which will give pupils the opportunity to apply their knowledge of a subject. These models are found under the *Content* tab when Yenka is opened.

Since all the Yenka Science titles are simulators, they will help you to cover other areas of the curriculum too. This is just a list of the activities and models that are currently available; there are plenty of other experiments you can simulate. You may wish to look at the tutorials under *Getting Started* in Yenka, and the [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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Physical Sciences

Area	Indicator	Product	Content
<i>Nature of Energy</i>	2. Describe how an object can have potential energy due to its position or chemical composition and can have kinetic energy due to its motion.	Yenka Motion	Related online activity: - Kinetic Energy Formula
	4. Explain how energy can change forms but the total amount of energy remains constant.	Yenka Motion	Related online activity: - Work Done Against Gravity
	5. Trace energy transformation in a simple closed system (e.g., a flashlight).	Yenka Motion	Online activity: - Work Done Against Gravity

Scientific Enquiry

Area	Indicator	Product	Content
<i>Doing Scientific Enquiry</i>	7. Use graphs, tables and charts to study physical phenomena and infer mathematical relationships between variables (e.g., speed and density).	Yenka Motion Yenka Electricity	Graphs and tables are used widely throughout Yenka science, and students are taught to read and interpret data accurately. Several examples of this are in the following online activities: - V-T Graphs and Distance 1 - Speed or Velocity - Ball Accelerating Down a Slope - Ohm's Law

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