

Ohio Science Correlation (Grade 8)

Reference: [Academic Content Standards p.134 \(Word document\)](#)

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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Earth and Space Sciences

Area	Indicator	Product	Content
The Universe	8. Name and describe tools used to study the universe (e.g., telescopes, probes, satellites and spacecraft).	Yenka Light and Sound	Online activities: <ul style="list-style-type: none"> - Refracting Telescope 1 – Objective Lens - Refracting Telescope 2 – Eyepiece Lens - Refracting Telescope 3 – The Whole System - The Telescope

Physical Sciences

Area	Indicator	Product	Content
Forces and Motion	2. Explain that motion describes the change in the position of an object (characterized by a speed and direction) as time changes.	Yenka Motion	Online activities: <ul style="list-style-type: none"> - V-T Graphs and Distance 1 - Speed or Velocity Model: <ul style="list-style-type: none"> - Distance-time Graphs
	3. Explain that an unbalanced force acting on an object changes that object's speed and/or direction.	Yenka Motion	Online activity: <ul style="list-style-type: none"> - Force and Acceleration Model: <ul style="list-style-type: none"> - Acceleration (Describing Motion)

Scientific Enquiry

Area	Indicator	Product	Content
Doing Scientific Enquiry	3. Read, construct and interpret data in various forms produced by self and others in both written and oral form (e.g., tables, charts, maps, graphs, diagrams and symbols).	Yenka Motion Yenka Electricity Yenka Inorganic Chemistry	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: <ul style="list-style-type: none"> - Kinetic Energy Formula - V-T Graphs and Distance 1 - V-T Graphs and Distance 2 - V-T Graphs and Distance 3 - Graphs Showing Speed at Different Times - Light Bulb Resistance - Voltage Around a Circuit 1 - Mixing Acids and Alkalis - Solving Problems Using Methods of Separation (2)

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