

Florida Science Correlation (Grade 7)

Reference: [Florida's Student Performance Science Standards \(pdf\)](#), p. 56.

Introduction

This document correlates Yenka Science software to the content performance indicators of the Florida 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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Big Idea 10: Forms of Energy

Benchmark Code	Benchmark	Product	Content
SC.7.P.10.1	Illustrate that the sun's energy arrives as radiation with a wide range of wavelengths, including infrared, visible, and ultraviolet, and that white light is made up of a spectrum of many different colors.	Yenka Light and Sound	<p>Online activity:</p> <ul style="list-style-type: none"> - Refraction and Colour <p>and model:</p> <ul style="list-style-type: none"> - Electromagnetic spectrum (waves) <p>See also:</p> <ul style="list-style-type: none"> - Newton's Two Prism Experiment
SC.7.P.10.2	Observe and explain that light can be reflected, refracted, and/or absorbed.	Yenka Light and Sound	<p>Online activities:</p> <ul style="list-style-type: none"> - Refraction – Turning Light - Light Rays 1 - Parallel Beams 2 <p>Models:</p> <ul style="list-style-type: none"> - Absorption of radiation (waves) - Reflection and refraction (waves) <p>See also:</p> <ul style="list-style-type: none"> - Wave Refraction 1 - Wave Refraction 2 - X-rays in Medicine - Fibre-optic cable
SC.7.P.10.3	Recognize that light waves, sound waves, and other waves move at different speeds in different materials.	Yenka Light and Sound	<p>Online activity:</p> <ul style="list-style-type: none"> - Wave Refraction 1

Big Idea 11: Energy Transfer and Transformations

Benchmark Code	Benchmark	Product	Content
SC.7.P.11.1	Recognize that adding heat to or removing heat from a system may result in a temperature change and possibly a change of state.	Yenka Inorganic Chemistry	Related to online activity: - Heating Curves Model: - Melting ice and boiling water (Classifying Materials)
SC.7.P.11.2	Investigate and describe the transformation of energy from one form to another.	Yenka Motion	Related online activity: - Work Done Against Gravity

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