



*Upper Perkiomen School District*  
**Science Course Descriptions Grades 4 & 5**  
*Updated August 2025*

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***Upper Perkiomen School District Mission & Vision***

**OUR MISSION**

The Upper Perkiomen School District empowers students to achieve their potential through engaging instruction, fostering critical thinking, real-world skills, and responsible citizenship.

**Our VISION**

Empower our students with the knowledge, skills, and confidence to reach their full potential as lifelong learners and engaged global citizens.

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At Upper Perkiomen School District, we believe in developing Well-Rounded Students. We achieve this through offering a variety of courses to cultivate interest in the arts, music, physical education, and technology and scientific learning and skills, K-12. We endeavor to provide comprehensive supports addressing the needs of every student through their educational journey to cultivate students who are well-rounded productive members of society, excelling not only in academics, but also their personal and social capacities.

**Science Course of Study 4-5**

**Materials and Resources:** *Amplify Science*, [Link to texts](#) used in program \*All are not used at UPSD.

	Unit Themes	Unit Summary
<b>GRADE 4</b>		
Unit 1	<b>Waves, Energy, and Information</b>	Knowing that human Beings and animals use patterns to communicate enables us to see how waves, energy, and information play roles in our everyday lives.
Unit 2	<b>Energy Conversions</b>	Energy can change form and be converted to meet the needs of human life.
Unit 3	<b>Earth's Features</b>	The earth's features, such as fossils and types of rock formations reveal the history of a location.
<b>GRADE 5</b>		
Unit 1	<b>The Scientific Method</b>	Completing and designing experiments helps us see how attention to detail is necessary in order to produce accurate results.
Unit 2	<b>The Earth's System</b>	By learning about the earth's subsystems, Water resource engineers figure out what causes water shortages and how to design possible solutions.
Unit 3	<b>Ecosystem Restoration</b>	Learning about earth's ecosystems and how living organisms get the matter and energy they need to survive, helps us become good stewards of the environment. As citizens, we depend on and change the environment in a multitude of ways.