

Physical Science Honors - Year at a Glance

Course # 2003320

A Note to Parents: State standards require your child's science teacher to plan lessons that build knowledge of various scientific concepts, develop the ability to apply these concepts, and engage students in critical thinking. To achieve these goals, students will take part in a range of activities including reading, discussions, writing, lab activities and projects, and more. Safety is paramount in science labs and your child's teacher will ensure a safe learning environment.

What is the purpose of this course?

- Students will explore physical science concepts. Topics include: kinematics, forces, energy, electricity, chemistry, and some life science topics.

What will students be learning in this course?

Topics	
Quarter 1	<ul style="list-style-type: none">• The Nature of Science• Motion and Forces• Energy, Work, and Power
Quarter 2	<ul style="list-style-type: none">• Heat and Thermal Energy• Waves• Electricity
Quarter 3	<ul style="list-style-type: none">• Properties of Matter• Gas Laws• Atomic Theory and the Periodic Table
Quarter 4	<ul style="list-style-type: none">• Chemical Bonding• Chemical Reactions• Biological Processes• Nuclear Reactions

Possible Support Resources

Amoeba Sisters for Biological Topics: <https://www.youtube.com/user/AmoebaSisters>

Student tutorials: <https://www.floridastudents.org/#29|0|0|0>

Simulations can be found at: <https://phet.colorado.edu/>

Bozeman Science videos: <http://www.bozemanscience.com/>

Schoology: the teacher's site will have assignment information

Courses are designed so that all standards will be learned by the end of the course. This guide represents a recommended timeline and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will be addressed in a specific course are best answered by the individual teacher.