**Advanced Science Grades 7-8**

**Course Description:**

**Advanced Life Science 7**

Course Number: 03237H0707

Prerequisite: Science, Grade 6

Advanced Life Science provides students with a challenging curriculum that is aligned to the Alabama Course of Study. At the advanced level, students will use a wide variety of text to increase their use of critical thinking skills by exploring and questioning new ideas and theories. Students are involved in “hands-on” and “minds-on” learning which progresses from the concrete to the abstract and from knowledge to application in science. The curriculum moves at an accelerated pace with a more concentrated focus on independent reading, writing, analysis, and problem solving. The primary goals of the course are to foster independent learning and encourage in-depth exploration of the content. Outside and summer reading/writing assignments may be required.

**Advanced Physical Science 8**

Course Number: 03011H0808

Prerequisite: 7th grade Regular or Advanced Life Science

Advanced Physical Science 8 provides students with a challenging curriculum that is aligned to the Alabama Course of Study. At the advanced level, students will use a wide variety of text to increase their use of critical thinking skills for solving problems and designing investigations. The curriculum moves at an accelerated pace with a more concentrated focus on multiple types of scientific inquiry such as questioning, exploration, and the in-depth study of important concepts. The primary goals of the course are to foster independent learning, combine reasoning and thinking skills with scientific knowledge, and build the skills necessary for the transition to high school. Outside and summer reading/writing assignments may be required.

**Curriculum:**

E3 (Equip. Empower. Expect More.) Science 7

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**Required Teacher Preparation:**

E3 Science 7 Years 1-3\*

E3 Science 8 Years 1-3\*

\*Year 1 training should be completed prior to teaching Advanced Science courses. E3 Years 2-3 training should be completed in subsequent years.