

McMinn County 8th Grade Science Syllabus

Course Overview – Listed below you will view Tennessee Science Standards for your eighth grade science student. 8th grade science will provide students with the opportunity to learn, study, and explore from a variety of key concepts.

Scientific Method, Inquiry, Technology, and the Engineering Designing, these methods will be incorporated with designing experiments, choosing tools & procedures for investigations, organizing data, drawing conclusions, identifying bias & errors, developing new technology, and bioengineering.

Biodiversity and change includes, but is not limited to classification, adaptations, variations, survival, and relative age of fossils.

Physical science includes, but is not limited to atoms and elements, compounds and mixtures, the periodic table, states of matter, physical and chemical changes, chemical reactions and the conservation of mass, acids and bases, the chemistry of the earth's atmosphere, electromagnetism, magnetic fields, and gravity.

8th Required Text - Glencoe Science; Tennessee Science Grade 8 ISBN978-0-07-890139-3

Resources – We will use multiple resources throughout the school year, and these will be provided to students as we cover them. Please refer to the pacing guide for standards that will be covered. The pacing guide can be found on both the school and district websites.

Course Schedule –

1st Nine Weeks TNReady Pretest, Scientific Method, Inquiry & Technology, Biodiversity and Change - C1 Exploring and Classifying Life, C2 Adaptations Over Time, C3 Conserving Life

2nd Nine Weeks – Physical Science; Matter – Properties and Changes, C4 Measurement, C5 Properties and Changes of Matter, C6 States of Matter, C7 Inside the Atom, C8 The Periodic Table

3rd Nine Weeks – Physical Science; Matter - C9 Atomic Structure and Chemical Bonds, C10 chemical reactions, C11 Substances and Mixtures,

4th Nine Weeks – Physical Science; Matter- C13 Force and Newton's Laws; Gravity, C14 Magnetism.

TNReady Review, Projects, End of Course Review – State test

Additional Information: Field trips, guest speakers, and major projects will be determined throughout the school year.