

## K-8 Loudon County Summer Scholars Guide 2019-2020

Rising Grade 7<sup>th</sup> Grade to become 8th graders

School Fort Loudoun Middle School

Curriculum covered during the previous year that requires continued retention and repetition for students:

Thermal, chemical, and light energy are topics frequently discussed throughout the science curriculum in seventh grade and will be important topics for students to review/understand for eighth grade.

The new State of TN Science Standards utilize the Engineering and Design Process versus the Scientific Method. It is important that students recall the process: Ask, Imagine, Plan, Create, and Improve. Students will need to understand what a prototype is as part of the Engineering & Design Process.

Students learned about many life science topics including cell organelles, kingdoms, and body systems. These will all be prevalent topics in high school biology that students should continue to review.

Students should also continue reviewing the periodic table and understanding that all elements are made of atoms and that these atoms have subatomic particles, including electrons, neutrons, and protons.

Curriculum for the upcoming school year of which students should be aware, and areas that might be a challenge for students, with suggestions on how students can prepare for the upcoming year:

Students will be learning about Earth's System, Waves, Energy, and Forces in the eighth grade. Their current understanding of the Engineering Design Process will also be reviewed. Students could prepare for next school year by reading articles about earth systems including plate tectonics, information about the different types of rocks, including metamorphic, sedimentary, and igneous, and work to develop a basic understanding of waves/forces. These topics will all be taught in the next school year of science.

Suggested Summer Reading:

Websites like Kids National Geographic, CK-12, and NewsELA all offer free reading resources with current events, articles that explain many of the topics listed above, and wonderful illustration & graphics to elaborate the content.

Suggested Activities/Practice Assignments

StudyJams is another free resources that students are able to access with videos about science and math topics, as well as short assessments that help to challenge the student's understanding of the topic.