RCS Rutherford County Schools

Parent Guide to

Student Success

Rutherford County Schools is committed to providing high quality instruction anchored in the Tennessee State Standards using state adopted and board approved curriculum resources.

What to Expect in 7th Grade Science

The theme for seventh grade science is how matter and reactions are the basis for life science, particularly the molecules that make up life, DNA/proteins, and their hierarchy to organ systems and heredity; and bio-geochemical cycles, such as carbon and oxygen cycling through photosynthesis and aerobic cellular respiration. Earth and space science standards are addressed from a perspective based on matter and reactions (atmospheric composition, combustion, and climate change).

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A Sample of What Your Child Will Be Working On

- Identifying a sample of matter by referring to physical and chemical properties.
- Developing a model to show how mass is conserved in a chemical reaction.
- Conducting an investigation to demonstrate how the cell membrane maintains a balanced and stable environment.
- Examining a problem from the medical field pertaining to bio-materials and design a solution.
- Developing and use a model (Punnet square) to show how traits are passed from parent to offspring.
- Using data to engage in argument about the relationship between human activity and climate change.

ⓘ **Did You Know?**

Tennessine (Ts) is an element on the periodic table and it was discovered with the help of scientists from Oak Ridge National Laboratory in Tennessee.

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Conversation Starters

With Students

- What are you learning about in your science class? Can you show me a sample?
- What observations have you made, investigations you have completed, or models you have drawn?
- What goals do you have for your science class? How can I help?

With Teachers

- Is my child meeting the expectations of this class? How can I keep track of their progress?
- How can I keep track of their progress and see if they have any missing assignments?
- What are some experiments we can do at home together?

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Resources:

TN State Standards |