Council Rock School District Priority Standards

The priority standards denote the essential learning that is most critical for all students to understand and do in the particular subject, grade or course. Teachers will teach all standards, but will work collaboratively to ensure students learn the priority standards as they are critical to the next grade, next course, or post-secondary success.

Technology Education Department Priority Standards by Course

Seventh Grade Technology Education

The Nature of Technology:

Standard 1. Students will develop an understanding of the characteristics and scope of technology.

Standard 2. Students will develop an understanding of the core concepts of technology.

Standard 3. Students will develop an understanding of the relationships among technologies and the

connections between technology and other fields of study.

The Designed World:

Standard 19. Students will develop an understanding of and be able to select and use

manufacturing technologies.

Standard 20. Students will develop an understanding of and be able to select and use

construction technologies.

Eighth Grade Technology Education

Design:

Standard 9. Students will develop an understanding of engineering design.

Standard 10. Students will develop an understanding of the role of troubleshooting, research

and development, invention and innovation, and experimentation in problem

solving.

Abilities for a Technological World:

Standard 11. Students will develop the abilities to apply the design process.

Standard 12. Students will develop the abilities to use and maintain technological products and

systems.

Standard 13. Students will develop the abilities to assess the impact of products and systems.

The Designed World:

Standard 16. Students will develop an understanding of and be able to select and use energy and power technologies.

Standard 17. Students will develop an understanding of and be able to select and use information and communication technologies.

Standard 18. Students will develop an understanding of and be able to select and use transportation technologies.

Energy Power & Transportation Technology

The Nature of Technology:

Standard 1. Students will develop an understanding of the characteristics and scope of technology.

Standard 2. Students will develop an understanding of the core concepts of technology.

Standard 3. Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study.

Technology and Society:

Standard 4. Students will develop an understanding of the cultural, social, economic, and political effects of technology.

Standard 5. Students will develop an understanding of the effects of technology on the environment.

Standard 6. Students will develop an understanding of the role of society in the development and use of technology.

Standard 7. Students will develop an understanding of the influence of technology on history.

The Designed World:

Standard 16. Students will develop an understanding of and be able to select and use energy and power technologies.

Architectural Design & Engineering

The Nature of Technology:

Standard 1. Students will develop an understanding of the characteristics and scope of technology.

Standard 2. Students will develop an understanding of the core concepts of technology.

Standard 3. Students will develop an understanding of the relationships among technologies and the

connections between technology and other fields of study.

Design:

Standard 8. Students will develop an understanding of the attributes of design.

Standard 9. Students will develop an understanding of engineering design.

Standard 10. Students will develop an understanding of the role of troubleshooting, research and

development, invention and innovation, and experimentation in problem solving.

Drafting & Design Engineering

The Nature of Technology:

Standard 1. Students will develop an understanding of the characteristics and scope of technology.

Standard 2. Students will develop an understanding of the core concepts of technology.

Standard 3. Students will develop an understanding of the relationships among technologies and the

connections between technology and other fields of study.

Design:

Standard 8. Students will develop an understanding of the attributes of design.

Standard 9. Students will develop an understanding of engineering design.

Standard 10. Students will develop an understanding of the role of troubleshooting, research and

development, invention and innovation, and experimentation in problem solving.

Engineering and Robotics

The Nature of Technology:

Standard 1. Students will develop an understanding of the characteristics and scope of technology.

Standard 2. Students will develop an understanding of the core concepts of technology.

Standard 3. Students will develop an understanding of the relationships among technologies and the
connections between technology and other fields of study.

Design:

Standard 8. Students will develop an understanding of the attributes of design.

Standard 9. Students will develop an understanding of engineering design.

Standard 10. Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.

Graphic Arts

The Nature of Technology:

Standard 1. Students will develop an understanding of the characteristics and scope of technology.

Standard 2. Students will develop an understanding of the core concepts of technology.

Standard 3. Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study.

Design:

Standard 8. Students will develop an understanding of the attributes of design.

Standard 9. Students will develop an understanding of engineering design.

Standard 10. Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.

Know Your Car

The Nature of Technology:

Standard 1. Students will develop an understanding of the characteristics and scope of technology.

Standard 2. Students will develop an understanding of the core concepts of technology.

Standard 3. Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study.

Online Media

The Nature of Technology:

>Standard 1. Students will develop an understanding of the characteristics and scope of technology.

>Standard 2. Students will develop an understanding of the core concepts of technology.

>Standard 3. Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study.

Design:

>Standard 8. Students will develop an understanding of the attributes of design.

>Standard 9. Students will develop an understanding of engineering design.

>Standard 10. Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.

Photography

The Nature of Technology:

>Standard 1. Students will develop an understanding of the characteristics and scope of technology.

>Standard 2. Students will develop an understanding of the core concepts of technology.

>Standard 3. Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study.

Design:

>Standard 8. Students will develop an understanding of the attributes of design.

>Standard 9. Students will develop an understanding of engineering design.

>Standard 10. Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.

STEM Guitar

The Nature of Technology:

> Standard 1. Students will develop an understanding of the characteristics and scope of technology.
>
> Standard 2. Students will develop an understanding of the core concepts of technology.
>
> Standard 3. Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study.

Design:

> Standard 8. Students will develop an understanding of the attributes of design.
>
> Standard 9. Students will develop an understanding of engineering design.
>
> Standard 10. Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.

Wood Technology

The Nature of Technology:

> Standard 1. Students will develop an understanding of the characteristics and scope of technology.
>
> Standard 2. Students will develop an understanding of the core concepts of technology.
>
> Standard 3. Students will develop an understanding of the relationships among technologies and the connections between technology and other fields of study.

Design:

> Standard 8. Students will develop an understanding of the attributes of design.
>
> Standard 9. Students will develop an understanding of engineering design.
>
> Standard 10. Students will develop an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.