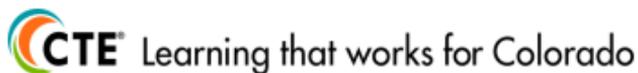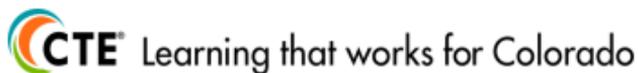**What are the different types of engineering fields (e.g., mechanical, civil, electrical) and how can you decide which one might be right for you?**

Identify various fields within
engineering and technology and their
respective career opportunities.

Engineering

What kind of problems do engineers solve, and how can you start practicing problem-solving skills relevant to engineering?

Identify the differences of the
disciplines found in engineering and
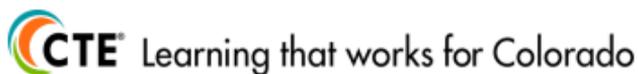how they are integrated to solve
problems/competencies here

Engineering

What are some simple DIY projects or experiments you can do at home to get a taste of engineering work?

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Compare and contrast the
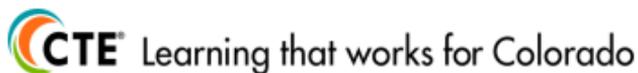engineering design process to the
scientific method

Engineering

What software tools are commonly used in engineering, and how can you start learning them while still in high school?

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Recognize the work typically
performed, tools and technology
used, and nature of work
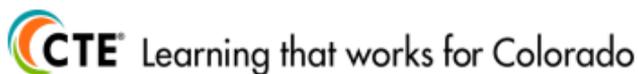environment

Engineering

What are some potential career paths within engineering, and how can internships or job shadowing help you explore these options?

Identify various fields within engineering and technology and their respective career opportunities.
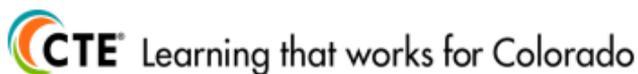
Engineering

What are some current challenges or trends in the field of engineering, and how might you get involved in addressing them?

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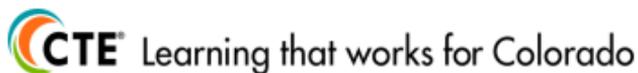Recognize the work typically performed, tools and technology used, and nature of work environment

Engineering

How do engineers use technology in their work, and what emerging technologies are shaping the future of engineering?

CTE® Learning that works for Colorado

Recognize the work typically
performed, tools and technology
used, and nature of work
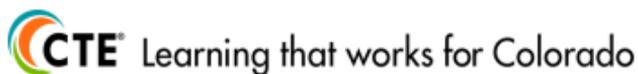environment

Engineering

What are some key skills (e.g., critical thinking, teamwork) that engineers need, and how can you develop these skills in high school?

Evaluate how the engineering design process was used to create/update a current product
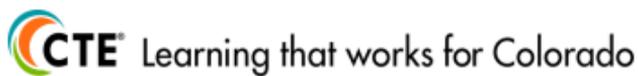
Engineering

How does engineering impact your daily life, and can you think of examples where engineering solutions have improved things around you?

CTE® Learning that works for Colorado

Recognize the work typically
performed, tools and technology
used, and nature of work
environment

Engineering

What types of educational programs or courses can prepare you for an engineering career, and how can you start planning your academic path now?

CTE° Learning that works for Colorado

Understand the necessary education
associated within the careers

Engineering