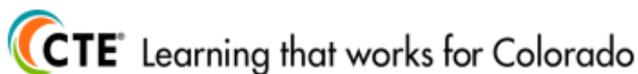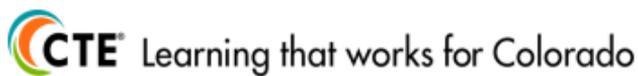**What are some different career paths within IT (e.g., network administrator, software developer, cybersecurity analyst), and how can you determine which role might suit you best?**

Identify various fields within
information technology and their
respective career opportunities
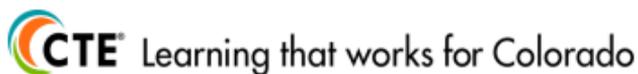
Information Technology

Why is coding important in IT, and what are some beginner-friendly programming languages or resources you can start learning?

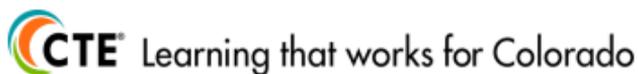Explain why various languages exist

Information Technology

What are some fundamental concepts in cybersecurity, and how can you start learning about protecting data and systems from threats?

Determine security fundamentals on confidentiality, availability, and integrity
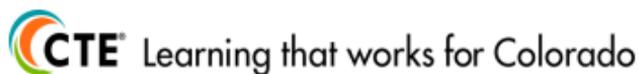
Information Technology

How can working on personal or school IT projects help you build a portfolio, and what are some project ideas to get started?

CCTE® Learning that works for Colorado

Understand the necessary education
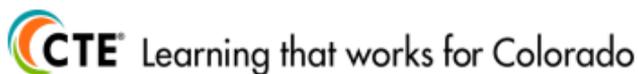associated within the careers

Information Technology

What does a network administrator do, and how can you learn more about managing and troubleshooting computer networks?

CTE® Learning that works for Colorado

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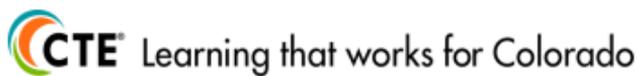environment

Information Technology

What steps are involved in developing software applications, and how can you gain experience in software development while still in high school?

CTE® Learning that works for Colorado

Understand the necessary education
associated within the careers
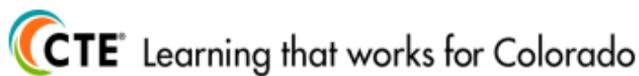
Information Technology

What are some valuable IT certifications (e.g., CompTIA A+, Cisco CCNA), and how can earning these certifications benefit your career in IT?

. Identify potential certification
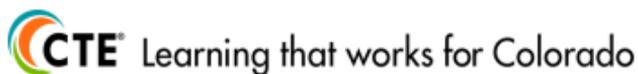opportunities

Information Technology

What are some emerging technologies (e.g., artificial intelligence, cloud computing) that are shaping the future of IT, and how can you stay informed about these trends?

Outline the evolution of the internet
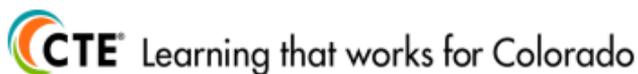
Information Technology

How do IT professionals approach troubleshooting and problem-solving, and what are some common issues you might encounter in IT support?

CTE® Learning that works for Colorado

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

Information Technology

What types of college degrees or technical programs can prepare you for a career in IT, and how can you start planning your educational journey now?

CTE® Learning that works for Colorado

Understand the necessary education
associated within the careers

Information Technology