Grades 10-12 Networking, Quarter 4, Revised 2013

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<th>Standards</th>
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| Standard 2.0 – Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace. | I can:  
- Cultivate positive leadership skills.  
- Participate in the student organization directly related to their program of study as an integral part of classroom instruction.  
- Assess situations, apply problem-solving techniques and decision-making skills within the school community, and workplace.  
- Participate as a team member in a learning environment.  
- Respect the opinions, customs, and individual differences of others.  
- Build personal career development by identifying career interests, strengths, and opportunities.  
- Assume responsibility for accomplishing classroom assignments and workplace goals within accepted time frames.  
- Develop advanced study skills.  
- Demonstrate and use written and verbal communication skills.  
- Read and understand technical documents such as regulations, manuals, reports, forms, graphs. | SkillsUSA Professional Development Program (PDP)  
Various Internet search engines  
Chapters 12 and 14 in Network+ Guide to Networks; Dean, Tamara; CENGAGE learning |
• Apply the foundations of mathematical principles such as algebra, geometry, and advanced math to solve problems.
• Apply basic scientific principles and methods to solve problems and complete tasks.
• Understand computer operations and related applications to input, store, retrieve, and output information as it relates to the course.
• Research, recognize, and understand the interactions of the environment and green issues as they relate to the course work and to the global economy.
• Evaluate redundancy levels in data storage with the implementation of RAID 0, 1, 5, 10, and 50.
• Examine backup methods and procedures as well as the benefits of off-site data storage.
• Identify network hardware and software devices that provide security and intruder detection.
• Differentiate between user authentication security methods (e.g., Kerberos, MS-CHAP, RADIUS) and hardware level filtering methods (MAC filtering, firewalls, PPTP, IPSec).
• Demonstrate remote access to a network using applications and utilities included with the OS or NOS.
- Explain some common security methods used by intruders and the procedures to mitigate or resolve these security violations (e.g., Denial of Service (DoS), Worms, War Driving)