Big Ideas/Key Concepts: The students will examine network elements and protocols, and the Open System Interconnect (OSI) reference model.

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<th>Standards</th>
<th>Student Friendly “I Can” Statements</th>
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| Standard 9.0 – Students will compare the basic attributes, purpose, and function of network elements and associate protocols with their appropriate functions. | I can:  
- Research the differences, advantages, and disadvantages of standard protocols.  
- Set up and properly configure standard protocols.  
- Compare and contrast full and half-duplexing.  
- Differentiate a wide area network (WAN) and local area network (LAN).  
- Compare and contrast a server, workstation, host, and client.  
- Analyze server-based networking and peer-to-peer networking.  
- Research the terms cable, network interface card (NIC), and router.  
- Compare and contrast broadband and baseband.  
- Evaluate the three categories of the Open System Interconnect (OSI) model.  
- Evaluate the protocols, services, and functions that pertain to each layer of the Open System Interconnect (OSI) reference model. |
| Standard 11.0 – Students will analyze the open system interconnect (OSI) reference model. |