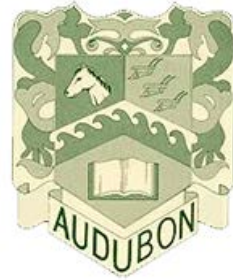


Audubon Public Schools



Network Technology

Curriculum Guide

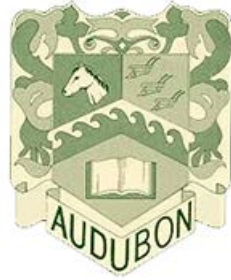
Developed by:

Mr. Daniel P. Carter Jr.

August 31, 2019

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Course Description

Network Technology

This course will introduce a variety of concepts, practice activities and simulations that help build the learner's skills and understanding of computer networking. They will learn how to set up a basic home network, configure devices for connectivity, understand how communication takes place on a network, and what minimal best practices should be implemented to secure the network. Learners will also be introduced to the software used to manage routers, switches, and servers.

Overview / Progressions

Overview	Focus Indicator #	Overview	Focus Indicator #	Overview	Focus Indicator #
Unit 1	<ul style="list-style-type: none"> ● 8.2.12.E.2 ● 8.2.12.E.4 ● 9.3.12.K.6 ● 9.3.IT-SUP.2 	Unit 2	<ul style="list-style-type: none"> ● 8.2.12.E.1 ● 8.2.12.E.2 ● 8.2.12.E.4 ● 9.3.12.K1.3 ● 9.3.IT-SUP.3 	Unit 3	<ul style="list-style-type: none"> ● 8.2.12.C.3 ● 9.4.12.C.45 ● 9.3.IT.12
Unit 4	<ul style="list-style-type: none"> ● 8.2.12.E.1 ● 9.3.IT-NET.1 ● 9.3.12.AR-TEL.3 	Unit 5	<ul style="list-style-type: none"> ● 8.2.12.E.1 ● 9.3.IT-SUP.5 ● 9.3.12.AR-TEL.1 	Unit 6	<ul style="list-style-type: none"> ● 9.3.12.AR-TEL.1 ● 9.3.12.AR-TEL.3 ● 9.3.IT-NET.1
Unit 7	<ul style="list-style-type: none"> ● 8.2.12.E.4 ● 9.3.IT-NET.2 ● 9.3.IT-SUP.5 	Unit 8	<ul style="list-style-type: none"> ● 8.2.12.E.1 ● 9.3.IT-SUP.5 ● 9.3.IT-NET.2 	Unit 9	<ul style="list-style-type: none"> ● 8.2.12.E.1 ● 9.3.IT-NET.2 ● 9.3.IT-SUP.5
Unit 10	<ul style="list-style-type: none"> ● 8.2.12.E.1 ● 9.3.IT-NET.3 ● 9.3.IT-SUP.5 ● 9.3.IT-SUP.9 	Unit 11	<ul style="list-style-type: none"> ● 9.3.12.AR-TEL.4 ● 9.3.IT-SUP.5 ● 9.3.IT-NET.1 ● 9.3.IT-NET.2 	Unit 12	<ul style="list-style-type: none"> ● 9.3.12.AR-TEL.1 ● 9.3.IT-SUP.5 ● 9.3.IT-NET.3
Unit 13	<ul style="list-style-type: none"> ● 9.3.IT-NET.2 ● 9.3.IT-NET.5 ● 9.3.12.AR-TEL.1 ● 9.3.IT-SUP.5 	Unit 14	<ul style="list-style-type: none"> ● 9.3.12.AR-TEL.1 ● 9.3.IT-SUP.5 ● 9.3.IT-NET.2 ● 9.3.IT-NET.5 	Unit 15	<ul style="list-style-type: none"> ● 9.3.12.AR-TEL.1 ● 9.3.12.AR-TEL.4 ● 9.3.IT-NET.3 ● 9.3.IT-NET.5

Network Technology		Unit 1	Marking Period 1
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Focus Indicator	
Introduction to the Personal Computer (PC)	
8.2.12.E.2	Analyze the relationships between internal and external computer components
8.2.12.E.4	Use appropriate terms in conversation (e.g., troubleshooting, peripherals, diagnostic software, GUI, abstraction, variables, data types and conditional statements).
9.3.12.K.6	Describe trends in emerging and evolving COMPUTER technologies and their influence on IT practices.
9.3.IT.12	Demonstrate knowledge of the hardware components associated with information systems.

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets ● Practical Factors 	<ul style="list-style-type: none"> ● Vocabulary Quiz ● Component Quiz ● Hands on project ● Weekly Participation rubric
Suggested Primary Resources	Suggested Supplemental Resources
<ul style="list-style-type: none"> ● Text book/Google Classroom 	<ul style="list-style-type: none"> ● Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> ● Informational reading in Network Technology ● Informational writing in Network Technology using similar structures. 	
Enduring Understanding	Essential Questions
<ul style="list-style-type: none"> ● Internal make up of a personal computer 	<ul style="list-style-type: none"> ● What are the various IT certifications?

- Increase Network Technology vocabulary

- What is the importance of the computer industry?

Network Technology		Unit 2	Marking Period 1
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Focus Indicator	
Basics of Preventive Maintenance and Troubleshooting	
8.2.12.E.1	Demonstrate an understanding of the problem-solving capacity of computers in our world.
8.2.12.E.2	Analyze the relationships between internal and external computer components
8.2.12.E.4	Use appropriate terms in conversation (e.g., troubleshooting, peripherals, diagnostic software, GUI, abstraction, variables, data types and conditional statements).
9.3.12.K1.3	Apply appropriate troubleshooting techniques in resolving COMPUTER hardware software and configuration problems.

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets ● Practical Factors 	<ul style="list-style-type: none"> ● Vocabulary Quiz ● Project rubric ● Weekly Participation rubric ● Summative Assessment
Suggested Primary Resources	Suggested Supplemental Resources

<ul style="list-style-type: none"> ● Text book/Google Classroom 	<ul style="list-style-type: none"> ● Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> ● Informational reading in Network Technology ● Informational writing in Network Technology using similar structures. 	
Enduring Understanding	Essential Questions
<ul style="list-style-type: none"> ● Proper preventative maintenance. ● Proper PC cleaning ● Proper PC troubleshooting. ● Increase Network Technology vocabulary 	<ul style="list-style-type: none"> ● What is the importance of proper preventative maintenance? ● What is the proper way to clean a PC? ● Why is it important to properly troubleshoot?

Network Technology		Unit 3	Marking Period 1
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Focus Indicator	
Safe Lab Procedures and Tool Use	
8.2.12.C.3	Analyze a product or system for factors such as safety, reliability, economic considerations, quality control, environmental concerns, manufacturability, maintenance and repair, and human factors engineering (ergonomics).
9.4.12.C.45	Examine and summarize safety-related problems common to this cluster including those that may result from working with ELECTRICAL circuits to demonstrate a broad understanding of health and safety concerns

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> ● Group Work ● Notebook 	<ul style="list-style-type: none"> ● Vocabulary Quiz ● Hands on project

<ul style="list-style-type: none"> • Worksheets • Practical Factors 	<ul style="list-style-type: none"> • Weekly Participation rubric
Suggested Primary Resources	Suggested Supplemental Resources
<ul style="list-style-type: none"> • Text book/Google Classroom 	<ul style="list-style-type: none"> • Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> • Informational reading in Network Technology • Informational writing in Network Technology using similar structures. 	
Enduring Understanding	Essential Questions
<ul style="list-style-type: none"> • Safety procedures when working on a personal computer • Increase Network Technology vocabulary 	<ul style="list-style-type: none"> • What are the safety procedures? • What is “ESD”? Why must it be avoided? • Why are the safety procedures needed?

Network Technology		Unit 4	Marking Period 1
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Focus Indicator	
Introduction to Networks	
8.2.12.E.1	Demonstrate an understanding of the problem-solving capacity of computers in our world.
9.3.IT-NET.1	Analyze customer or organizational network system needs and requirements.

9.3.12.AR-TEL.3	Demonstrate decision making, problem-solving techniques and communication skills when providing services for customers.

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets ● Practical Factors 	<ul style="list-style-type: none"> ● Vocabulary Quiz ● Project rubric ● Weekly Participation rubric ● Summative Assessment
Suggested Primary Resources	Suggested Supplemental Resources
<ul style="list-style-type: none"> ● Text book/Google Classroom 	<ul style="list-style-type: none"> ● Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> ● Informational reading in Network Technology 	
Enduring Understanding	Essential Questions
<ul style="list-style-type: none"> ● Types of network computers ● Types of networks ● How to interconnect devices ● Increase Network Technology vocabulary 	<ul style="list-style-type: none"> ● How do you determine the type of network computer? ● What are the types of networks used in workplace? ● What type of networks are best for which situations?

Network Technology		Unit 5	Marking Period 2
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Focus Indicator	
The OSI Reference Model	
8.2.12.E.1	Demonstrate an understanding of the problem-solving capacity of computers in our world.
9.3.IT-SUP.5	Demonstrate the use of networking concepts to develop a network.
9.3.12.AR-TEL.1	Demonstrate the use of telecommunications terminology , tools and test equipment.

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets ● Practical Factors 	<ul style="list-style-type: none"> ● Vocabulary Quiz ● Project rubric ● Weekly Participation rubric ● Summative Assessment
Suggested Primary Resources	Suggested Supplemental Resources
<ul style="list-style-type: none"> ● Text book/Google Classroom 	<ul style="list-style-type: none"> ● Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> ● Informational reading in Network Technology ● Informational writing in Network Technology using similar structures. 	
Enduring Understanding	Essential Questions
<ul style="list-style-type: none"> ● The OSI model is the primary architectural model for networks. ● The seven steps of the OSI model ● The purpose of the OSI model ● Increase Network Technology vocabulary 	<ul style="list-style-type: none"> ● What is the primary OSI model for networks? ● What is the primary purpose of the OSI model? ● What are the seven levels of the OSI model?

Network Technology		Unit 6	Marking Period 2
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Focus Indicator	
Networking Topology, Connectors and Wiring Standards	
9.3.12.AR-TEL.1	Demonstrate the use of telecommunications terminology, tools and test equipment.
9.3.12.AR-TEL.3	Demonstrate decision making, problem-solving techniques and communication skills when providing services for customers.
9.3.IT-NET.1	Analyze customer or organizational network system needs and requirements.

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets ● Practical Factors 	<ul style="list-style-type: none"> ● Vocabulary Quiz ● Project rubric ● Weekly Participation rubric ● Summative Assessment
Suggested Primary Resources	Suggested Supplemental Resources
<ul style="list-style-type: none"> ● Text book/Google Classroom 	<ul style="list-style-type: none"> ● Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> ● Informational reading in Network Technology ● Informational writing in Network Technology using similar structures. 	
Enduring Understanding	Essential Questions

<ul style="list-style-type: none"> • Types of network connection (cabling and connections) • RJ 45 wiring standards • Increase Network Technology vocabulary 	<ul style="list-style-type: none"> • What are the types of network cabling and connections available? • What are the RJ 45 wiring standards and how are each used?
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Network Technology		Unit 7	Marking Period 2
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Focus Indicator	
Ethernet Specifications	
8.2.12.E.4	Use appropriate terms in conversation (e.g., troubleshooting, diagnostic software, variables, data types and conditional statements).
9.3.IT-NET.2	Analyze wired and wireless network systems to determine if they meet specifications (<i>e.g.</i> , IEEE, power and security).
9.3.IT-SUP.5	Demonstrate the use of networking concepts to develop a network.

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> • Group Work • Notebook • Worksheets • Practical Factors 	<ul style="list-style-type: none"> • Vocabulary Quiz • Project rubric • Weekly Participation rubric • Summative Assessment
Suggested Primary Resources	Suggested Supplemental Resources

<ul style="list-style-type: none"> • Text book/Google Classroom 	<ul style="list-style-type: none"> • Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> • Informational reading in Network Technology 	
Enduring Understanding	Essential Questions
<ul style="list-style-type: none"> • What Carrier Sense Multiple Access / Collision Detection is and how it works. • What the Ethernet Standards 802.3 are • What the Common Ethernet Cable Types 	<ul style="list-style-type: none"> • What is the purpose of CSMA/CD and how does it work? • What are the Ethernet Standards 802.3? • What are the Common Ethernet Cable Types and what are the advantages/disadvantages of each?

Network Technology		Unit 8	Marking Period 2
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Focus Indicator	
Network Devices	
8.2.12.E.1	Demonstrate an understanding of the problem-solving capacity of computers in our world.
9.3.IT-SUP.5	Demonstrate the use of networking concepts to develop a network
9.3.IT-NET.2	Analyze wired and wireless network systems to determine if they meet specifications (<i>e.g.</i> , IEEE, power and security).

Formative Assessments	Summative Assessments
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<ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets ● Practical Factors 	<ul style="list-style-type: none"> ● Vocabulary Quiz ● Project rubric ● Weekly Participation rubric ● Summative Assessment
Suggested Primary Resources	Suggested Supplemental Resources
<ul style="list-style-type: none"> ● Text book/Google Classroom 	<ul style="list-style-type: none"> ● Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> ● Informational reading in Network Technology 	
Enduring Understanding	Essential Questions
<ul style="list-style-type: none"> ● Identify the Common Network Devices ● Define the basic firewall rules. ● Describe what an Intrusion Detection System is and how it works ● Increase Network Technology vocabulary 	<ul style="list-style-type: none"> ● What are the common network devices? ● What are the basic firewall rules? ● What is an Intrusion Detection System and how does it work? ● What are the terms associated with network devices?

Network Technology	Unit 9	Marking Period 3
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Focus Indicator	
TCP/IP & IP Addressing – IPv4 & Ipv6	
8.2.12.E.1	Demonstrate an understanding of the problem-solving capacity of computers in our world.
9.3.IT-NET.2	Analyze wired and wireless network systems to determine if they meet specifications (<i>e.g.</i> , IEEE, power and security).

9.3.IT-SUP.5	Demonstrate the use of networking concepts to develop a network.

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets ● Practical Factors 	<ul style="list-style-type: none"> ● Vocabulary Quiz ● Project rubric ● Weekly Participation rubric ● Summative Assessment
Suggested Primary Resources	Suggested Supplemental Resources
<ul style="list-style-type: none"> ● Text book/Google Classroom 	<ul style="list-style-type: none"> ● Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> ● Informational reading in Network Technology 	
Enduring Understanding	Essential Questions
<ul style="list-style-type: none"> ● Identify what transmission control protocol/Internet protocol (TCP/IP) is and how it works. ● Describe the different ports and the rules associated with them. ● Define Internet protocol and how information move. 	<ul style="list-style-type: none"> ● What is transmission control protocol/Internet protocol (TCP/IP) is and how does it work? ● What are the types of port and the rules associated with them? ● What is an Internet protocol and how does information move?

Network Technology		Unit 10	Marking Period 3
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Focus Indicator	
Routing, Switching, and VLANs	
8.2.12.E.1	Demonstrate an understanding of the problem-solving capacity of computers in our world.
9.3.IT-NET.3	Design a network system using technologies , tools and standards.
9.3.IT-SUP.5	Demonstrate the use of networking concepts to develop a network
9.3.IT-SUP.9	Employ technical writing and documentation skills in support of an information system.

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets ● Practical Factors 	<ul style="list-style-type: none"> ● Vocabulary Quiz ● Project rubric ● Weekly Participation rubric ● Summative Assessment
Suggested Primary Resources	Suggested Supplemental Resources
<ul style="list-style-type: none"> ● Text book/Google Classroom 	<ul style="list-style-type: none"> ● Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> ● Informational reading in Network Technology 	
Enduring Understanding	Essential Questions
<ul style="list-style-type: none"> ● Demonstrate an understanding of the importance a routing table ● Identify the basic routing protocols. ● Understand how switches are use. ● Identify the types of switches ● Identify what a network time protocol is. 	<ul style="list-style-type: none"> ● What is the purpose of a routing table? ● What are routing protocols and the purpose of each? ● What is the purpose of switches? ● What are the types of switches and how is each used? ● Why is a network time protocol important?

Network Technology		Unit 11	Marking Period 3
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Focus Indicator	
Wireless Networking	
9.3.12.AR-TEL.4	Demonstrate the installation , repair and delivery of network systems.
9.3.IT-SUP.5	Demonstrate the use of networking concepts to develop a network.
9.3.IT-NET.1	Analyze customer or organizational network system needs and requirements.
9.3.IT-NET.2	Analyze wired and wireless network systems to determine if they meet specifications (e.g., IEEE, power and security).

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets ● Practical Factors 	<ul style="list-style-type: none"> ● Vocabulary Quiz ● Project rubric ● Weekly Participation rubric ● Summative Assessment
Suggested Primary Resources	Suggested Supplemental Resources
<ul style="list-style-type: none"> ● Text book/Google Classroom 	<ul style="list-style-type: none"> ● Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> ● Informational reading in Network Technology 	

Enduring Understanding	Essential Questions
<ul style="list-style-type: none"> ● Identify the 802.11 standards. ● Describe the steps in setting up a wireless network ● Identify the components used in a wireless network ● Describe the security protocols in a wireless network 	<ul style="list-style-type: none"> ● What are the 802.11 standards and what is their purpose? ● What are the steps in setting up a wireless network? ● What are the components used in a wireless network? ● What are the security risks when utilizing and setting a wireless network?

Network Technology		Unit 12	Marking Period 3
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Focus Indicator	
Authentication and Access Control	
9.3.12.AR-TEL.1	Demonstrate the use of telecommunications terminology , tools and test equipment.
9.3.IT-SUP.5	Demonstrate the use of networking concepts to develop a network.
9.3.IT-NET.3	Design a network system using technologies, tools and standards.

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets ● Practical Factors 	<ul style="list-style-type: none"> ● Vocabulary Quiz ● Project rubric ● Weekly Participation rubric ● Summative Assessment

Suggested Primary Resources	Suggested Supplemental Resources
<ul style="list-style-type: none"> Text book/Google Classroom 	<ul style="list-style-type: none"> Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> Informational reading in Network Technology 	
Enduring Understanding	Essential Questions
<ul style="list-style-type: none"> The importance of an Access Control List Define the types of tunneling. Identify the Virtual Private Network types. Describe what Network Access Control is. 	<ul style="list-style-type: none"> What is an Access Control List and what does it do? What are the types of tunneling? What are the types of Virtual Private Networks? What is Network Access Control?

Network Technology	Unit 13	Marking Period 4
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Focus Indicator	
Network Threats	
9.3.IT-NET.2	Analyze wired and wireless network systems to determine if they meet specifications (e.g., IEEE, power and security).
9.3.IT-NET.5	Perform network administration, monitoring and support to maintain a network system.
9.3.12.AR-TEL.1	Demonstrate the use of telecommunications terminology, tools and test equipment.

9.3.IT-SUP.5	Demonstrate the use of networking concepts to develop a network.

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets ● Practical Factors 	<ul style="list-style-type: none"> ● Project rubric ● Weekly Participation rubric ● Summative Assessment
Suggested Primary Resources	Suggested Supplemental Resources
<ul style="list-style-type: none"> ● Text book/Google Classroom 	<ul style="list-style-type: none"> ● Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> ● Informational reading in Network Technology 	
Enduring Understanding	Essential Questions
<ul style="list-style-type: none"> ● Define terms associated with network security. ● Define the types of security threats. ● List the types of Malicious Software (Malware). ● Explain the types of network security 	<ul style="list-style-type: none"> ● What are the terms associated with network security? ● Identify the types of security threats and how each works? ● What is malware and what can be done to prevent it? ● What are the types of network security?

Network Technology	Unit 14	Marking Period 4
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Focus Indicator

Wide Area Networking	
9.3.12.AR-TEL.1	Demonstrate the use of telecommunications terminology, tools and test equipment.
9.3.IT-SUP.5	Demonstrate the use of networking concepts to develop a network.
9.3.IT-NET.2	Analyze wired and wireless network systems to determine if they meet specifications (e.g., IEEE, power and security).
9.3.IT-NET.5	Perform network administration, monitoring and support to maintain a network system.

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets ● Practical Factors 	<ul style="list-style-type: none"> ● Project rubric ● Weekly Participation rubric ● Summative Assessment
Suggested Primary Resources	Suggested Supplemental Resources
<ul style="list-style-type: none"> ● Text book/Google Classroom 	<ul style="list-style-type: none"> ● Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> ● Informational reading in Network Technology 	
Enduring Understanding	Essential Questions
<ul style="list-style-type: none"> ● Define terms associated with Wide Area Networking ● Identify the types of media used in Wide Area Networking. ● List the basic network troubleshooting procedures. 	<ul style="list-style-type: none"> ● What are the terms associated with WAN? ● What are the types of media used in Wide Area Networking? ● What are the steps in basic network troubleshooting?

Network Technology		Unit 15	Marking Period 4
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Focus Indicator	
Troubleshooting	
9.3.12.AR-TEL.1	Demonstrate the use of telecommunications terminology, tools and test equipment.
9.3.12.AR-TEL.4	Demonstrate the installation, repair and delivery of network systems.
9.3.IT-NET.3	Design a network system using technologies, tools and standards.
9.3.IT-NET.5	Perform network administration, monitoring and support to maintain a network system

Formative Assessments	Summative Assessments
<ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets ● Practical Factors 	<ul style="list-style-type: none"> ● Project rubric ● Weekly Participation rubric ● Summative Assessment
Suggested Primary Resources	Suggested Supplemental Resources
<ul style="list-style-type: none"> ● Text book/Google Classroom 	<ul style="list-style-type: none"> ● Internet
Cross-Curricular Connections	
<ul style="list-style-type: none"> ● Informational reading in Network Technology 	
Enduring Understanding	Essential Questions

- Describe the tools and utilities that are commonly used when troubleshooting network problems.
- Describe the network monitoring tools used
- Describe the commonly used testing equipment used in networking.

- What are the common troubleshooting tools/utilities and how are they used?
- What are the network monitoring tools used?
- What are the common types of testing equipment used when networking?