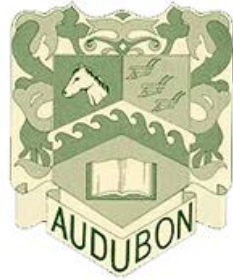


Audubon Public Schools



Design Technology

Curriculum Guide

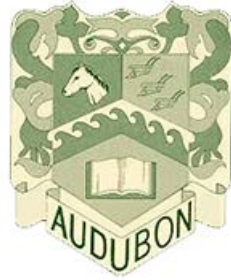
Developed by:

Mr. Daniel P. Carter Jr.

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Course Description

Design Technology

This course teaches the basic techniques of digital design. It will include basic silk screening techniques from image generation and screen preparation to the use of screen printing as a creative outlet. Students receive hands-on training in a computer environment using current production software and will be introduced to the Adobe Creative Suite for photo editing, illustrating, and web design where they will create a website.

Overview / Progressions

| Overview | Focus Indicator # | Overview | Focus Indicator # |
|----------|---|----------|---|
| Unit 1 | <ul style="list-style-type: none">• 8.1.8.A.5• 9.3.12.AR - PRT.2• 9.3.12.AR - PRT.3 | Unit 2 | <ul style="list-style-type: none">• 8.1.8.A.5• 8.1.4.A.3• 8.1.12.D.2• TEC.9-12 |
| Unit 3 | <ul style="list-style-type: none">• 8.1.8.A.5• 9.3.IT-WD.6• 9.4.12.K.(3).10 | Unit 4 | <ul style="list-style-type: none">• 8.1.8.A.5• |

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|--------------------------|--|---------------|-------------------------|
| Design Technology | | Unit 1 | Marking Period 1 |
|--------------------------|--|---------------|-------------------------|

| Focus Indicator | |
|---|--|
| Introduction to the silk screening process | |
| 8.1.8.A.5 | Select and use appropriate tools and digital resources to accomplish a variety of tasks and to solve problems. |
| 9.3.12.AR-PRT.2 | Demonstrate the production of various print, multimedia or digital media products |
| 9.3.12.AR-PRT.3 | Perform finishing and distribution operations related to the printing process. |

| Formative Assessments | Summative Assessments |
|--|--|
| <ul style="list-style-type: none"> ● Group Work ● Notebook | <ul style="list-style-type: none"> ● Hands on projects ● Project rubric ● Weekly Participation rubric |
| Suggested Primary Resources | Suggested Supplemental Resources |
| <ul style="list-style-type: none"> ● Red Rubylith film, X-Acto knife ● Silk screen, frame, adhering fluid ● Blue Poly film, light emulsion machine | <ul style="list-style-type: none"> ● T-Shirts ● Binder building materials |
| Cross-Curricular Connections | |
| <ul style="list-style-type: none"> ● Informational reading on the screen printing process. | |
| Enduring Understanding | Essential Questions |
| <ul style="list-style-type: none"> ● Use an x-acto knife to cut out a hand cut Stencil. ● Assemble a silk screen frame ● Adhere a hand cut stencil to the screen ● Tape and block out a screen assembly ● Print and cleanup water-based ink ● Transfer a blue poly via emulsion method. ● Adhere a blue poly stencil to the screen ● Tape and block out a screen assembly ● Print and cleanup oil-based ink ● Construct a binder | <ul style="list-style-type: none"> ● What is the proper method for cutting a hand cut stencil? ● What is the proper procedure for Blue Poly transfers? ● What is the proper technique for adhering a stencil? ● What are the proper ways to print silk screens? ● What is the process for cleaning up water-based and oil-based inks? ● What is the process for constructing a binder? |

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| Design Technology | | Unit 2 | Marking Period 2 |
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| Focus Indicator | |
|--|--|
| Introduction to Adobe Photoshop | |
| 8.1.8.A.5 | Select and use appropriate tools and digital resources to accomplish a variety of tasks and to solve problems. |
| 8.1.4.A.3 | Create and present a multimedia presentation that includes graphics |
| 8.1.12.D.2 | Demonstrate appropriate use of copyrights, fair use and creative commons |
| TEC.9-12 | Produce and edit page layouts in different formats using desktop publishing and graphics software |

| Formative Assessments | Summative Assessments |
|--|---|
| <ul style="list-style-type: none"> ● Group Work ● Notebook | <ul style="list-style-type: none"> ● Hands on project ● Weekly Participation rubric |
| Suggested Primary Resources | Suggested Supplemental Resources |
| <ul style="list-style-type: none"> ● Google Classroom ● Adobe Photoshop | <ul style="list-style-type: none"> ● Photoshop classroom in a book |
| Cross-Curricular Connections | |
| <ul style="list-style-type: none"> ● Informational reading in the Adobe workbook | |
| Enduring Understanding | Essential Questions |
| <ul style="list-style-type: none"> ● Get to know the work area ● Understand basic photo corrections ● Work with selections ● Know the layer basics ● Correct and enhance digital photos ● Understand masks and channels ● Use typographical designs ● Utilize advance compositing ● Edit videos | <ul style="list-style-type: none"> ● How is the work area set up? ● How do you make corrections to photos? ● What are the basics of layers? ● How do you correct and enhance digital photos? ● What are masks and channels used for? ● How do you implement typographical designs? ● When would you utilize advance compositing? ● How do you create and edit videos? |

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| Design Technology | | Unit 3 | Marking Period 3 |
|--------------------------|--|---------------|-------------------------|

| Focus Indicator | |
|--|--|
| Introduction to Adobe Dreamweaver | |
| 8.1.8.A.5 | Select and use appropriate tools and digital resources to accomplish a variety of tasks and to solve problems. |
| 9.3.IT-WD.6 | Design, create and publish a digital communication product based on customer needs |
| 9.4.12.K.(3).6 | Consider intellectual property issues when creating Web pages and comply with intellectual property rights statutes and regulations. |
| 9.4.12.K.(3).10 | Demonstrate the effective use of tools, including tools for product development, product management, and production, to complete Web-based or digital communication projects |

| Formative Assessments | Summative Assessments |
|---|---|
| <ul style="list-style-type: none"> ● Group Work ● Notebook | <ul style="list-style-type: none"> ● Hands on project ● Weekly Participation rubric |
| Suggested Primary Resources | Suggested Supplemental Resources |
| <ul style="list-style-type: none"> ● Google Classroom ● Adobe Dreamweaver | <ul style="list-style-type: none"> ● Dreamweaver classroom in a book |
| Cross-Curricular Connections | |
| <ul style="list-style-type: none"> ● Informational reading in the Dreamweaver workbook | |
| Enduring Understanding | Essential Questions |
| <ul style="list-style-type: none"> ● Customize your workspace ● Identify the basics of HTML and CSS ● Create a page layout ● Work with cascading style sheets and templates ● Work with images and navigation ● Add animations and videos | <ul style="list-style-type: none"> ● How do you customize a workspace? ● What are the basics of HTML and CSS? ● How do you create a page layout? ● What is the importance of cascading style sheets? ● How does adding images and navigation better your web page? ● Why would you add animations and videos to a web page? |

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|--------------------------|--|---------------|-------------------------|
| Design Technology | | Unit 4 | Marking Period 4 |
|--------------------------|--|---------------|-------------------------|

| Focus Indicator | |
|---|--|
| Layout, Design, and Production in Graphics | |
| 8.1.8.A.5 | Select and use appropriate tools and digital resources to accomplish a variety of tasks and to solve problems. |
| 9.3.12.AR-PRT.2 | Demonstrate the production of various print, multimedia or digital media products. |
| 9.3.12.AR-PRT.3 | Perform finishing and distribution operations related to the printing process |

| Formative Assessments | Summative Assessments |
|--|---|
| <ul style="list-style-type: none"> ● Group Work ● Notebook ● Worksheets | <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"> ● Jogger ● Binder ● Roland BN-20 vinyl printer ● Cutting machine ● Digital Duplicator | <ul style="list-style-type: none"> ● Adobe Illustrator ● Adobe Photoshop ● Print Shop 23 |
| Cross-Curricular Connections | |
| <ul style="list-style-type: none"> ● Informational reading in layout, design, and production. | |
| Enduring Understanding | Essential Questions |
| <ul style="list-style-type: none"> ● Proper use of Adobe Illustrator. ● Proper operation of the BN-20 vinyl printer ● Proper use of the paper jogger ● Proper and safe use of the binding machine. ● Proper and safe use of the cutting machine ● Proper use of the Digital Duplicator | <ul style="list-style-type: none"> ● How do properly insert cut-lines utilizing Adobe Illustrator? ● How do you properly layout, design, and produce t-shirts, stickers, and window clings? ● How do you properly jog, cut and bind tablets? ● How do you properly design and cut business cards? |