Unit 4- Wood Joints/Desk Organizer Production Copied from: Basic Wood Working, Copied on: 02/21/22

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Belleville Public Schools

Curriculum Guide

Unit 4-Wood Joints/Desk Organizer Production

Belleville Board of Education

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Unit Overview

Students will identify wood joints and understand the purpose and need for wood joints. Students will begin phases for desk organizer and create a hands on project for individual project creation. Strong connections will be used when creating wood joints.

Enduring Understanding

Students will be able to understand....

The importance of creating structures that can be joined and maintain structural integrity

Work independently and precisely on the creation of a desk organizer

Essential Questions	
What is the purpose of a wood joint?	
Why do we need to have a wood joint?	
How do we develop a wood joint?	
Why must we stain our desk organizer?	
What are the measurements for the desk organizer?	
Do the measurements must be precise on the organizer?	
Exit Skills	
Students will be able to	
Identify all wood joints	
Understand the needs for wood joints in all projects	
Develop a desk organizer for personnel use	
Sand and stain project organizer	
New Jersey Student Learning Standards (NJSLS-S)	

9.3.12.AC	Architecture & Construction
9.3.12.AC.1	Use vocabulary, symbols and formulas common to architecture and construction.
9.3.12.AC.2	Use architecture and construction skills to create and manage a project.
9.3.12.AC.3	Comply with regulations and applicable codes to establish and manage a legal and safe workplace.
9.3.12.AC.4	Evaluate the nature and scope of the Architecture & Construction Career Cluster and the role of architecture and construction in society and the economy.
9.3.12.AC.5	Describe the roles, responsibilities, and relationships found in the architecture and construction trades and professions, including labor/management relationships.
9.3.12.AC.6	Read, interpret and use technical drawings, documents and specifications to plan a project.
9.3.12.AC.7	Describe career opportunities and means to achieve those opportunities in each of the Architecture & Construction Career Pathways.
9.3.12.AC-CST	Construction

Interdisciplinary Connections

	Key Ideas and Details
LA.RL.11-12.1	Cite strong and thorough textual evidence and make relevant connections to support analysis of what the text says explicitly as well as inferences drawn from the text, including determining where the text leaves matters uncertain.
LA.RL.11-12.2	Determine two or more themes or central ideas of a text and analyze their development over the course of the text, including how they interact and build on one another to produce a complex account; provide an objective summary of the text.
LA.RL.11-12.3	Analyze the impact of the author's choices regarding how to develop and relate elements of a story or drama (e.g., where a story is set, how the action is ordered, how the characters are introduced and developed).
LA.RL.11-12.7	Analyze multiple interpretations of a story, drama, or poem (e.g., recorded or live production of a play or recorded novel or poetry), evaluating how each version interprets the source text. (e.g., Shakespeare and other authors.)
LA.RL.11-12.8	(Not applicable to literature)
LA.RL.11-12.9	Demonstrate knowledge of and reflect on (e.g., practical knowledge, historical/cultural context, and background knowledge) eighteenth-, nineteenth- and early twentieth-century foundational works of literature, including how two or more texts from the same period treat similar themes or topics.
MA.A-REI.C	Solve systems of equations
MA.A-REI.D	Represent and solve equations and inequalities graphically
	Comprehension and Collaboration
LA.SL.11-12.1	Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with peers on grades 11–12 topics, texts, and issues, building on

others' ideas and expressing their own clearly and persuasively.

Come to discussions prepared, having read and researched material under study; explicitly draw on that preparation by referring to evidence from texts and other research on the

topic or issue to stimulate a thoughtful, well reasoned exchange of ideas.

LA.SL.11-12.1.B Collaborate with peers to promote civil, democratic discussions and decision-making, set

clear goals and assessments (e.g., student developed rubrics), and establish individual

roles as needed.

Learning Objectives

Students will be able to.....

Identify wood joints

LA.SL.11-12.1.A

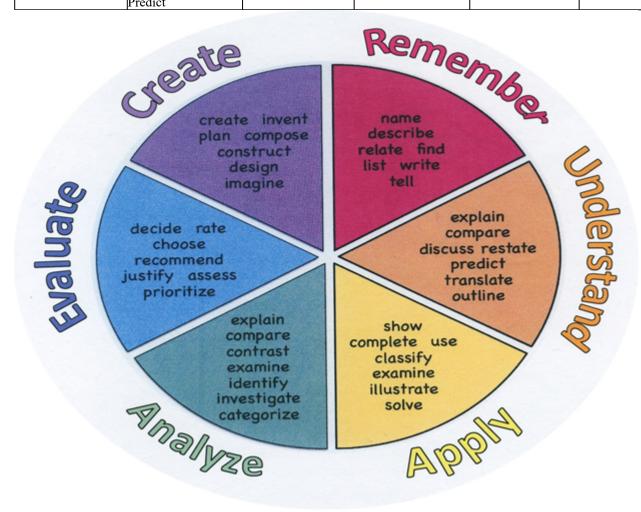
Organize a production plan for creating desk organizer

Plan a production format with measurements for organizer

Develop a wood joint for desk organizer

Remember	Understand	Apply	Analyze	Evaluate	Create
Choose	Classify	Choose	Categorize	Appraise	Combine
Describe	Defend	Dramatize	Classify	Judge	Compose
Define	Demonstrate	Explain	Compare	Criticize	Construct
Label	Distinguish	Generalize	Differentiate	Defend	Design
List	Explain	Judge	Distinguish	Compare	Develop
Locate	Express	Organize	Identify	Assess	Formulate
Match	Extend	Paint	Infer	Conclude	Hypothesize
Memorize	Give Examples	Prepare	Point out	Contrast	Invent
Name	Illustrate	Produce	Select	Critique	Make
Omit	Indicate	Select	Subdivide	Determine	Originate
Recite	Interrelate	Show	Survey	Grade	Organize
Select	Interpret	Sketch	Arrange	Justify	Plan
State	Infer	Solve	Breakdown	Measure	Produce
Count	Match	Use	Combine	Rank	Role Play
Draw	Paraphrase	Add	Detect	Rate	Drive
Outline	Represent	Calculate	Diagram	Support	Devise
Point	Restate	Change	Discriminate	Test	Generate
Quote	Rewrite	Classify	Illustrate		Integrate
Recall	Select	Complete	Outline		Prescribe
Recognize	Show	Compute	Point out		Propose
Repeat	Summarize	Discover	Separate		Reconstruct
Reproduce	Tell	Divide			Revise
_	Translate	Examine			Rewrite
	Associate	Graph			Transform

Compute	Interpolate		
Convert	Manipulate		
Discuss	Modify		
Estimate	Operate		
Extrapolate	Subtract		
Generalize			
Predict			



Suggested Activities & Best Practices

- -Students will develop and understand why wood joints are used to strengthen projects
- -Students will use stain and understand why it is needed
- -Students will research what a wood joint is and why it is needed
- -Students will understand and create measurements that must be precise on desk organizers

Assessment Evidence - Checking for Understanding (CFU)

- -Students will be given a quiz on purpose of wood joints
- -Students will self assess desk organizers when complete and make sure all measurements are correct-benchmark assessment
- -Students will define what a wood joint is and explain why they are needed-alternate assessment

Fist-to-Five or Thumb-Ometer-formative assessment

Unit test-summative assessment

- Admit Tickets
- Anticipation Guide
- Common Benchmarks
- Compare & Contrast
- Create a Multimedia Poster
- DBQ's
- Define
- Describe
- Evaluate
- · Evaluation rubrics
- Exit Tickets
- Explaining
- Fist- to-Five or Thumb-Ometer
- Illustration
- Journals
- KWL Chart
- Learning Center Activities
- Multimedia Reports
- Newspaper Headline
- Outline
- Question Stems

•	Quickwrite
•	Quizzes
•	Red Light, Green Light
•	Self- assessments
•	Socratic Seminar
•	Study Guide
•	Surveys
•	Teacher Observation Checklist
•	Think, Pair, Share
•	Think, Write, Pair, Share
•	Top 10 List
•	Unit review/Test prep
•	Unit tests
•	Web-Based Assessments
•	Written Reports
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Table Saw-Students will use the table saw to make cuts on the desk organizers

Jointer-Students will use jointer to strengthen support for projects

Dowel Press-Dowels will be inserted for support on organizers

Wood Glue-Glue will be used to keep dowels in place for support

Vise-Students will use a vise for support

Desktop PC-Computer will be used to watch Youtube videos on operation of equipment

Win 8.1 Apps/Tools Pedagogy Wheel **Podcasts** Photostory 3 Kid Story Builder Music Maker Jam Paint A Story Office 365 MS PowerPoint **Activities** Stack 'Em Up Blog Journal NgSquared Numbers Diagraming Physamajig Bing Search Documenting Mind mapping Xylophone 8 Commenting Action Verbs Word processing Recognise Social Networkin Describe Identify Recounting Design Construct Infer Retrieve Wikipedia Match Locate Skydrive List Manipulate Rate Lync Drawing Blogging Demo Use Opinion SkyMap Teach Record Diagraming Commenting Critique Evaluate Animating Voting Skype Share Draw Collaborate Journals Surveys Office 365 Simulate Assess Debate Quizzes Photography Puzzle Touch Survey Justify Create Deduce Movie Making Peer assessment Sequence Differentiate Construct Prioritise Easy QR Music Making Self Assessment Memorylage Examine Story Telling Debating Contrast Compare Scrapbooks Life Moments Collaging Outline Word Cloud Maker Graphing Voting Mindmapping Reading comprehension Peer Assessment Judging Spreadsheets Surveying Summarising Listening Mapping Comparing Where's Waldo? 830Wee 365 MS Excel Office 365 Ted Talks Flipboard Nova Mindmapping Record Voice Pen

Alignment to 21st Century Skills & Technology

CRP.K-12.CRP1	Act as a responsible and contributing citizen and employee.
CRP.K-12.CRP1.1	Career-ready individuals understand the obligations and responsibilities of being a member of a community, and they demonstrate this understanding every day through their interactions with others. They are conscientious of the impacts of their decisions on others and the environment around them. They think about the near-term and long-term consequences of their actions and seek to act in ways that contribute to the betterment of their teams, families, community and workplace. They are reliable and consistent in going beyond the minimum expectation and in participating in activities that serve the greater good.
CRP.K-12.CRP2	Apply appropriate academic and technical skills.
CRP.K-12.CRP2.1	Career-ready individuals readily access and use the knowledge and skills acquired through experience and education to be more productive. They make connections between abstract concepts with real-world applications, and they make correct insights about when it is appropriate to apply the use of an academic skill in a workplace situation.
CRP.K-12.CRP4	Communicate clearly and effectively and with reason.
CRP.K-12.CRP6	Demonstrate creativity and innovation.
CRP.K-12.CRP6.1	Career-ready individuals regularly think of ideas that solve problems in new and different ways, and they contribute those ideas in a useful and productive manner to improve their organization. They can consider unconventional ideas and suggestions as solutions to issues, tasks or problems, and they discern which ideas and suggestions will add greatest value. They seek new methods, practices, and ideas from a variety of sources and seek to apply those ideas to their own workplace. They take action on their ideas and understand how to bring innovation to an organization.
CRP.K-12.CRP8	Utilize critical thinking to make sense of problems and persevere in solving them.
CRP.K-12.CRP8.1	Career-ready individuals readily recognize problems in the workplace, understand the nature of the problem, and devise effective plans to solve the problem. They are aware of problems when they occur and take action quickly to address the problem; they thoughtfully investigate the root cause of the problem prior to introducing solutions. They carefully consider the options to solve the problem. Once a solution is agreed upon, they follow through to ensure the problem is solved, whether through their own actions or the actions of others.
CAEP.9.2.12.C.3	Identify transferable career skills and design alternate career plans.
CAEP.9.2.12.C.5	Research career opportunities in the United States and abroad that require knowledge of world languages and diverse cultures.
TECH.8.1.12.A	Technology Operations and Concepts: Students demonstrate a sound understanding of technology concepts, systems and operations.
TECH.8.1.12.A.CS1	Understand and use technology systems.
TECH.8.1.12.A.CS2	Select and use applications effectively and productively.
TECH.8.1.12.B	Creativity and Innovation: Students demonstrate creative thinking, construct knowledge and develop innovative products and process using technology.
TECH.8.1.12.B.2	Apply previous content knowledge by creating and piloting a digital learning game or

tutorial.

TECH.8.1.12.B.CS1 Apply existing knowledge to generate new ideas, products, or processes.

TECH.8.1.12.B.CS2 Create original works as a means of personal or group expression.

21st Century Skills/Interdisciplinary Themes

- Communication and Collaboration
- Creativity and Innovation
- · Critical thinking and Problem Solving
- ICT (Information, Communications and Technology) Literacy
- Information Literacy
- Life and Career Skills
- Media Literacy

21st Century Skills

- Civic Literacy
- Environmental Literacy
- Financial, Economic, Business and Entrepreneurial Literacy
- Global Awareness
- Health Literacy

Differentiation

- -Students will work in small when operating and using equipment to create the desk organizer
- -All directions will be repeated prior to students operating all mechanical equipment
- -Teacher will read all assessments allowed to prevent future errors on measurements

Differentiations:

- Small group instruction
- Small group assignments
- Extra time to complete assignments
- Pairing oral instruction with visuals
- Repeat directions
- Use manipulatives
- Center-based instruction
- Token economy
- Study guides
- Teacher reads assessments allowed

- Scheduled breaks
- Rephrase written directions
- Multisensory approaches
- Additional time
- Preview vocabulary
- Preview content & concepts
- Story guides
- Behavior management plan
- Highlight text
- Student(s) work with assigned partner
- Visual presentation
- Assistive technology
- Auditory presentations
- Large print edition
- Dictation to scribe
- Small group setting

Hi-Prep Differentiations:

- Alternative formative and summative assessments
- Choice boards
- Games and tournaments
- Group investigations
- Guided Reading
- Independent research and projects
- Interest groups
- Learning contracts
- Leveled rubrics
- Literature circles
- Multiple intelligence options
- Multiple texts
- Personal agendas
- Project-based learning
- Problem-based learning
- Stations/centers
- Think-Tac-Toes
- Tiered activities/assignments
- Tiered products
- Varying organizers for instructions

Lo-Prep Differentiations

- Choice of books or activities
- Cubing activities
- Exploration by interest
- Flexible grouping
- Goal setting with students
- Jigsaw
- Mini workshops to re-teach or extend skills
- Open-ended activities
- Think-Pair-Share
- Reading buddies
- Varied journal prompts

Special Education Learning (IEP's & 504's)

- -Students will be given extra as needed to complete desk organizer
- -Students will repeat directions for operation of stain and wood joints for projects
- -Students will be assigned a partner to assist in creation of desk organizer
 - printed copy of board work/notes provided
 - additional time for skill mastery
 - assistive technology
 - behavior management plan
 - · Center-Based Instruction
 - · check work frequently for understanding
 - computer or electronic device utilizes
 - extended time on tests/ quizzes
- · have student repeat directions to check for understanding
- highlighted text visual presentation
- modified assignment format
- · modified test content
- modified test format
- modified test length
- · multi-sensory presentation
- multiple test sessions
- preferential seating
- preview of content, concepts, and vocabulary
- Provide modifications as dictated in the student's IEP/504 plan
- reduced/shortened reading assignments
- Reduced/shortened written assignments
- secure attention before giving instruction/directions
- shortened assignments
- student working with an assigned partner
- teacher initiated weekly assignment sheet
- Use open book, study guides, test prototypes

English Language Learning (ELL)

- -Students will be given extra as needed to complete desk organizer
- -Students will repeat directions for operation of stain and wood joints for projects
- -Students will be assigned a partner to assist in creation of desk organizer
- teaching key aspects of a topic. Eliminate nonessential information
- using videos, illustrations, pictures, and drawings to explain or clarif
- allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards, charts, graphs, slide shows, videos, etc.) to demonstrate student's learning;
- allowing students to correct errors (looking for understanding)
- allowing the use of note cards or open-book during testing
- · decreasing the amount of workpresented or required
- having peers take notes or providing a copy of the teacher's notes
- modifying tests to reflect selected objectives
- · providing study guides
- · reducing or omitting lengthy outside reading assignments
- reducing the number of answer choices on a multiple choice test
- · tutoring by peers
- using computer word processing spell check and grammar check features
- using true/false, matching, or fill in the blank tests in lieu of essay tests

At Risk

- -Students will watch Youtube videos on wood joints and images of desk organizers
- -Students will be given study guides prior to quizzes given on wood joints
 - allowing students to correct errors (looking for understanding)
- teaching key aspects of a topic. Eliminate nonessential information
- allowing products (projects, timelines, demonstrations, models, drawings, dioramas, poster boards, charts, graphs, slide shows, videos, etc.) to demonstrate student's learning
- allowing students to select from given choices
- · allowing the use of note cards or open-book during testing
- collaborating (general education teacher and specialist) to modify vocabulary, omit or modify items to reflect objectives for the student, eliminate sections of the test, and determine how the grade will be determined prior to giving the test.
- · decreasing the amount of workpresented or required
- having peers take notes or providing a copy of the teacher's notes

- marking students' correct and acceptable work, not the mistakes
- modifying tests to reflect selected objectives
- providing study guides
- · reducing or omitting lengthy outside reading assignments
- · reducing the number of answer choices on a multiple choice test
- tutoring by peers
- · using authentic assessments with real-life problem-solving
- using true/false, matching, or fill in the blank tests in lieu of essay tests
- using videos, illustrations, pictures, and drawings to explain or clarify

Talented and Gifted Learning (T&G)

-Students will present a plan on how to better take measurement for wood joints

-Students can work at a faster pace when creating the desk organizer

- Above grade level placement option for qualified students
- · Advanced problem-solving
- Allow students to work at a faster pace
- Cluster grouping
- Complete activities aligned with above grade level text using Benchmark results
- · Create a blog or social media page about their unit
- Create a plan to solve an issue presented in the class or in a text
- Debate issues with research to support arguments
- Flexible skill grouping within a class or across grade level for rigor
- Higher order, critical & creative thinking skills, and discovery
- Multi-disciplinary unit and/or project
- Teacher-selected instructional strategies that are focused to provide challenge, engagement, and growth opportunities
- Utilize exploratory connections to higher-grade concepts
- · Utilize project-based learning for greater depth of knowledge

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Unit Name:

NJSLS:

Interdisciplinary Connection:
Statement of Objective:
Anticipatory Set/Do Now:
Learning Activity:
Student Assessment/CFU's:
Materials:
21st Century Themes and Skills:
Differentiation/Modifications:
Integration of Technology: