Week two:

Wood Movement

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Industrial Arts Education

INDUSTRIAL ARTS

WEEK TWO: WOOD MOVEMENT

LESSON

Now that we have explored wood grain, we can take it one step further to ensure strong, durable projects. Understanding the wood grain in our last lesson will allow you to understand the twisting and warping that occurs in all woods, regardless of species.

Your Lesson:

This weeks reading resources are from Family Handy Man and Workshop Companion. Direct links found on the next page of this package.

TASK

Warping, twisting, contraction and expansion are four things that every wood worker must account for when planning a project and when housing the materials. If not done properly, it can end in a twisted or cracked project. This can waste money and time, so let's make sure it's done properly.

Your Task:

Complete the assignment on the next page, and send me a photo of the finished assignment to earn your week two badge for the Battle of the Badges contest!

CREATE

When wood is warped or twisted, it can cost a wood worker time and money and the wood ultimately end up as garbage or fire wood. Instead of throwing away those pieces, we can cut them down and reuse them for various scrap wood projects.

Create:

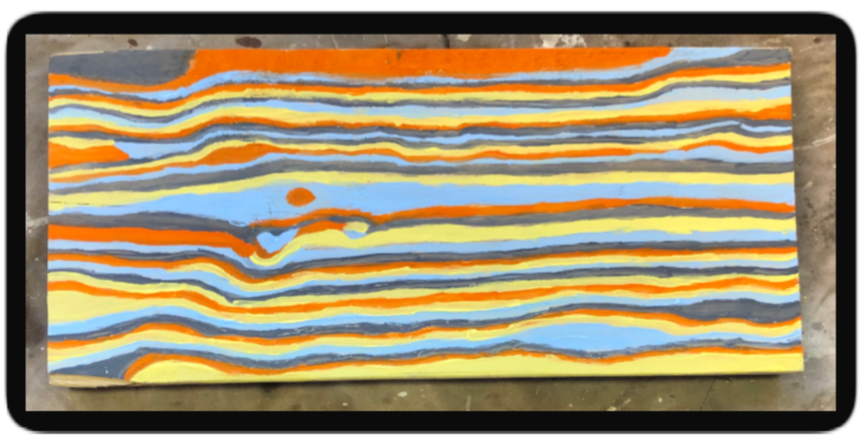
Tune in to the How- to video this week to learn about wood movement and to create beautiful mountain book ends for your home.

HOW TO VIDEO:
https://youtu.be/14KcPQHHCik

Battle of the Badges Weekly Spotlight!

Thank you to everyone who submitted your assignments! I LOVED being able to send you your first badge and enter your name into the draw for Battle of the Badges!

Our spotlight this week goes to Brianna Colenutt and Sydney Cruz who created beautiful Wood grain paintings!



All students who do optional projects get an extra ballot entered into the draw!

Don't

Sit on your couch and waste this time we have been given!

Do

Join Battle of he Badges contest, make cool stuff and win prizes!

Office Hours:

- **Period One** Wednesday 9:00 -10:00
- **Period two** Tuesday 10:00 - 11:00
- **Catholic Studies** Wednesday 11:30-12:00
- **Period Four** Tuesday 1:00- 2:00
- **Period Five** Thursday 2:00- 3:00

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WEEK TWO TASK

Use the resources provided on the next page to answer the questions below

1. What causes wood to swell, or grow in size?

2. What causes wood to contract, or shrink in size?

3. Explain the ABCD's of wood movement. What does it affect and what are the problems?

4. What are best cuts/joinery for outside projects and why?

5. Find a diagram explaining the names of wood movement. Warping, twisting, etc.

6. How do you estimate for wood movement?

7. Quartersawn and plain-sawn: what is each and which is better in regards to limiting wood movement.

8. How does moisture content affect movement?

9. What does acclimate mean and why should we allow a few days for wood acclimating before starting to use it?

10. Does wood movement change depending on the species of tree?

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TASK RESOURCES

1. https://www.familyhandyman.com/woodworking/wood-movement-101/

2. http://workshopcompanion.com
   a. Go to website and click on "Woodworking design" on the left column menu.
   b. Click on "2. Wood Movement" on that page.

3. https://youtu.be/BP0j9uy1nuk

Make sure you take a picture and submit your assignment to Karen.jordan@htcsd.ca and I will send you this week's badge! Each week you earn a badge, you will be entered into the draw! So earn as many as you can for the best chance to win!