

OAKLAND CUSD #5

**CONSTRUCTION  
TRADES &  
DRAFTING  
APRIL 27-MAY 1, 2020**

JONATHON WELCH

# Week of April 27 - May 4, 2020

## Industrial Arts

### Jonathan Welch

#### GENERAL INFORMATION

Hello students. So here we are, already in Week 4 of our Remote Learning Program! Let's hope over the next few weeks, that we, our families, and friends, all continue to stay healthy.

Reflecting on the Industrial Arts program so far, I would like to congratulate everyone for their time, punctuality, and comprehensiveness in completing a task regularly, each week. This, to me, has been really encouraging and demonstrated a genuine commitment to learning and challenge, far greater than I anticipated. Infact, we have also had a student rejoin the program and this is also reassuring to see in these somewhat uncertain times.

Reminding everyone that the following comments are designed to help support you in completing the tasks that you select. Please remember to contact me if you need support, guidance or feel that there is anything else I might be able to help you with. In the event that an assignment might be a few days late, please do not forget to let me know in order I can make a note about this in the gradebook. I remain in constant contact with our school and despite currently being confined to working from home, am accessible at all times.

\*\*\*\*\*UPDATE!\*\*\*\*\*

#### **Career Safe: OSHA 10 hour, on-line Construction training program**

The majority of students have now completed this training and passed the final test successfully. If you are waiting for a formal test certification card, please be patient. These are being printed and when they are ready, I will make arrangements to get these posted to you directly.

If you are still working through the modules and have not yet completed the final test, then I would like to make two recommendations:

- Over the course of the next few weeks, please continue to work through the modules in your own time. It should be noted that I have no longer included work on this project as a weekly remote learning option,
- At this stage, it is strongly suggested you attempt **the final test once**. OSHA only permits the final test to be taken three times. If you are still unsuccessful in completing the final test after three attempts then you have no alternative other than to start the entire program again!

## **Industrial Arts: Jonathan Welch**

I am proposing to make arrangements for several Senior students to be available to work with any student wishing to take their final test 'with support', and will be getting back to you about this again in a couple of weeks. I feel that maybe collaboratively, you might wish to work with a student having already completed the work and perhaps utilize Google or similar to be mentored. Please note that this is only likely to happen once you have completed all of the modules necessary allowing you to take the final test. If you still need a Study Guide, please let me know and I will leave a copy in the school foyer.

**Please be aware that the final date for completing this program is mid May.**

### **Helping and supporting each other**

Please make sure you read the options carefully. Several students have completed tasks assigned to different classes. Remember also that as a student you should select your class, e.g. Construction I, and then follow the horizontal row, (across not down!), to read the three options available for that week. The first two choices are generally reviewing material we have already covered, whereas the third choice should be seen as an enrichment task for those of you wishing to tackle something new or be challenged.

**Irrespective, what is important is that you submit to me, one option by the due date.**

### **Office hours**

Reminding you that my remote 'office hours' are:

- Monday 08:00 - 10:00
- Wednesday 11:00 - 1:00 PM
- Thursday 3:00 PM - 5:00 PM

However, please do not feel constrained by these stated times. If you have concerns or need support with any of the weekly tasks or indeed other matters, please do not hesitate to reach out to me.

### **Getting hold of me**

The easiest way to contact me is through my school email address:

[jonathon.welch@oakland5.org](mailto:jonathon.welch@oakland5.org)

### **What is the format for presenting work?**

All work submitted must be original to you and where required, should always be presented using complete sentences and correct grammatical structure. Where research tasks are undertaken please cite references as appropriate.

## Industrial Arts: Jonathan Welch

### Turning work in

**This is extremely important!** If work is not turned in, it cannot be graded. Please remember that, (as with 'regular school'), grades are needed to enable credit to be awarded. Once again, please be assured that if, (for whatever reason), you are having difficulties completing work , I will do what I can to support you.

You may either email me your work, share it with me on Google, or leave a hard copy at school.

**All work needs to be submitted by the due date** and once again, this is important to stress. I am proposing to visit school once or twice a week to collect assignments and, as in the past, will be grading this and providing feedback as soon as is practicable.

### Returning tasks

At this stage I am proposing to return work as follows:

- If work is submitted electronically, I will provide comments to you electronically.
- If work is submitted as hard copy, I will provide written commentary directly to you and attach this to the work submitted. This may then be collected from school.

### Books and supplies

In the absence of a formal textbook for any of my classes, I will do my utmost to ensure that all of the tasks suggested can be completed with the minimum of resources and supplies. Naturally, in a technologically driven world, access to the internet is useful. However this must not be seen as fundamental to completing any task. In all instances, please use whatever resources may be at your disposal to work towards completing a task. Once again it is important to complete something rather than to submit nothing. Beyond your imagination, flair and creativity, very little else will be required apart from maybe a few sheets of paper.

## INSTRUCTIONS FOR HIGH SCHOOL STUDENTS

Following the instructions in each task, please attempt **one** of the following assignments.

**This work is due to be completed and submitted by May 4th.**

The estimated time to complete this task should take you somewhere between 20 minutes and 45 minutes.

You may send work to me either electronically, (via email), or similar, or as hard, (paper) copy.

**Industrial Arts: Jonathan Welch**

Tannar: please complete one of the following tasks and return to me.

Drafting	Task 1	Task 2	Task 3 (Enrichment)
	<p>Thinking back about the mobile phone and model drone project, explain the role of a designer. In your opinion do you think that designers are created or might their skills and abilities be inherited?</p> <p>Write a one page report justifying your opinion.</p> <p>Pay particular attention to your use of language, grammatical structure, and the order of your report.</p>	<p>Using your house or any other structure, (for example a garden shed, storage barn etc) to which you have access, sketch five elevations of the building.</p> <p>Try and estimate the sizes such as length, width and height if you do not have a tape measure.</p> <p>You could use your pace as a guide for length if you wish.</p> <p>The five elevations or views of the structure should comprise a plan, (eagle or birds' eye view), two side elevations and two end elevations. Attempt to include key features such as doors, windows, chimneys and perhaps external pipework.</p> <p>Label each elevation as appropriate and if time permits add descriptions such as 'brick work, timber siding, wooden window etc).</p>	<p>You have been commissioned to design a mansion for either a sports personality or a musician.</p> <p>Part of this process includes interviewing the celebrity to determine the requirements for their mansion.</p> <p>Develop a list of <u>ten</u> interview questions the answers to which will enable you to develop a Design Specification for their mansion.</p> <p>The first question may perhaps revolve around their needs in terms of a location.</p>

**Industrial Arts: Jonathan Welch**

<b>Construction I</b>	<b>Task 1</b>	<b>Task 2</b>	<b>Task 3 (Enrichment)</b>
	<p>Thinking back about our practical sessions in the workshop, develop a step by step guide explaining how to drill a hole in a piece of timber using either a battery powered drill or a drill press.</p> <p>Remember to include material inspection as the first step in your report.</p> <p>Include details of the measuring and checking tools that you might use to ensure the material is drilled appropriately and that the depth of the hole drilled can be measured accurately.</p> <p>Have you considered any safety requirements?</p>	<p>During our time away from school, several students have reported they have been actively engaged in practical projects at home (or elsewhere).</p> <p><b>Either:</b></p> <p>Develop a simple report discussing the project and what you have been involved with.</p> <p><b>Or:</b></p> <p>Develop a short photographic report of the project. If this second approach is adopted, you must present the photographs sequentially, (in order) and label each photograph (using a minimum of one sentence), to provide an explanation of what is being shown.</p>	<p>I have been offered a number of free on-line training programs by Career Safe. You may remember this was the organization that provided your training for the OSHA 10 hour on-line training program.</p> <p>The course offered relates to developing Interview Skills.</p> <p>Considering that all of us are interviewed at various times in our lives, please develop a short (one page) report detailing how you feel you might benefit from 'attending' this on-line course.</p> <p>Discuss areas appropriate to you. These might include: research, presentation, developing technique, developing confidence, questioning etc.</p> <p><b>Participants of this weekly option will then be invited to participate in this Career Safe program on a 'no charge' basis during Remote Learning: Week 5: Option 3 (Enrichment).</b></p>

**Industrial Arts: Jonathan Welch**

<b>Construction II</b>	<b>Task 1</b>	<b>Task 2</b>	<b>Task 3 (Enrichment)</b>

Develop a simple 'step by step' guide for helping Grade 6 - Grade 8 students read a classroom ruler. Be sure to include areas such as:

- Types of measuring equipment,
- Scales,
- Initial selection,
- Inspection for damage,
- Holding and positioning a ruler,
- Where to start measuring from, and,
- Recognizing the divisions of measurement (increments.)

Identify the term 'Production Technology'

Research the topic and provide six appropriate URLs that might be of use to an instructor in helping to understand **and** deliver this subject to their students.

Justify your selection for each URL suggested.

**Either:**

Should this task have been completed last week, I will forward you a login name and password. This will enable you to start the online 'Interviewing Techniques' program

**Or:**

You have been commissioned to design a mansion for either a sports personality or a musician.

Part of this process includes interviewing the celebrity to determine the requirements for their mansion.

Develop a list of **ten** interview questions, the answers to which will enable you to develop a Design Specification for their mansion.

The first question may perhaps revolve around their needs in terms of a location.