

VIRTUAL LEARNING FOR "TRADITIONAL" TECHNICAL EDUCATION PROGRAMS



Presented By,
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SOME THINGS TO CONSIDER

- *Consider you student's demographic conditions*
 - 1.) Family, Economic, Community, etc.
 - 2.) Special Needs
- *Establish routines for students to follow as part of the class*
 - 1.) Set a regular "Virtual" class meeting schedule
 - a.) **EXAMPLE:** Tuesday, Thursday - Per.1 @ 9:30, Per.2 @ 10:00, Per.3 @ 10:30, Per.4 @ 11:00, Per.5 @ 11:30, Per.6 @ 12:30, Per.7 @ 1:00
 - b.) Can be set up to meet "Repeat Weekly" & appear in students "calendar" with same log-in information
 - c.) Utilize a consistent platform like "Zoom" for meetings in conjunction with "Google Classroom" for assignments & ease in grading

ADDITIONAL THINGS TO CONSIDER

2.) Set regular "Office Hours"

- a.) **EXAMPLE:** Tuesdays, Thursdays – 10:30 to 11:00 & 11:30 to 12:30
- b.) Other hours by appointment

3.) Provide a mix of Formative & Summative assignments

a.) **FORMATIVE ASSIGNMENTS**

- *Should be limited to no more than approximately 30 minutes in overall length*
- *Can provide a mechanism for tracking attendance or engagement*
- *GREAT for "vetted" instructional videos & links consistent with proper Technology Education Curriculum & Performance Standards*
- *Unit content is "chunked" over multiple days*
- *Include a simple (five) 5 part "Google Quiz"*

SOME FINAL THINGS TO CONSIDER

b.) **SUMMATIVE ASSIGNMENTS / ASSESSMENTS**

- *Upon the completion of each "unit" after a series of "formative" assessments*
- *Should be "chunked" over 2 or 3 parts (2-3 days) with **recommended** no more than 10-12 parts / questions each*
- ***Recommend** each section ("chunk") take no more than approximately 30 minutes each*
- *Use "Google Quiz" to facilitate ease of assessment & grading*
- *Summative Assignment / Assessment weighted more than Formative Assessments*
- *Another means of monitoring attendance and / or student engagement*

c.) Flexibility is needed with assignment deadlines with **ALL** assignments due @ 11:59pm on date(s) due

d.) **LATE SUBMISSION** of assignments can be accepted

SAMPLE UNIT
"PERFORMING A PROFESSIONAL OIL CHANGE"

SUMMATIVE ASSIGNMENTS & ASSESSMENT Proceeded By Formative Below

PROFESSIONAL OIL CHANGE ASSESSMENT - Part 3 Short Answer / Bulleted Essay - SUMMATIVE

Introduction To Auto & Power Technology Section 1, Period 1— Due Apr 15, 11:59

PROFESSIONAL OIL CHANGE ASSESSMENT - Part 2 TRUE / FALSE - Summative

Introduction To Auto & Power Technology Section 1, Period 1— Due Apr 14, 11:59

PROFESSIONAL OIL CHANGE ASSESSMENT (Summative)

Introduction To Auto & Power Technology Section 1, Period 1— Due Apr 13, 11:59

FORMATIVE LESSONS & ASSIGNMENTS Leading To Summative

Tuesday 4/7/20 Virtual Classroom & Vehicle Oil Selection

Introduction To Auto & Power Technology Section 1, Period 1— Due Apr 7, 11:59

Straight Talk About Motor Oil

Introduction To Auto & Power Technology Section 1, Period 1— Due Apr 6, 11:59

Basic Automotive Maintenance Part #2 - PROFESSIONAL OIL CHANGE

Introduction To Auto & Power Technology Section 1, Period 1— Due Apr 3, 11:59

Basic Automotive Maintenance Part #1 - PROFESSIONAL OIL CHANGE

Introduction To Auto & Power Technology Section 1, Period 1— Due Apr 2, 11:59

SAMPLE DAILY "FORMATIVE" ASSIGNMENT

Join Zoom Meeting Tuesday April 7th

<https://zoom.us/j/946750147?pwd=MFpUNTZ2OEFNS1lnVXNTSU9rKzU1dz09>

Due Apr 6, 11:59 PM

Straight Talk About Motor Oil

100 points

Michael Iavarone Apr 2

DAILY ASSIGNMENT:

Many of you may have seen this video in the past. As a reminder, please review the following video link and answer the following five (5) questions. Please be sure to properly answer the questions and be sure to "Turn In" the assignment for grading & daily class credit.

LINK:

<https://www.youtube.com/watch?v=D7lqUkcZ-xM>

[Blank Quiz](#)

[Google Forms](#)

SAMPLE DAILY "FORMATIVE" GOOGLE QUIZ

Blank Quiz

Your email address (**miavarone@east-haven.k12.ct.us**) will be recorded when you submit this form. Not you? [Switch account](#)

NAME:

Which condition(s) contributes to engine deposits? 20 points

Road dust & dirt

Combustion by-products

Moisture & acid

Oxidation

All of the above

What information does the API symbol or donut provide? 20 points

Engine oil performance category (S= Gasoline Engines & C= Diesel Engines)

SAE Viscosity Grade

Energy or Resource Conserving

All of the above

SAMPLE DAILY "FORMATIVE" GOOGLE QUIZ (cont.)

What are benefits of synthetic motor oil compared to conventional motor oil? 20 points

Provides maximum deposit protection in high temperature conditions

Provides maximum sludge protection at low temperatures

More resistant to oil breakdown

Maximum wear protection

All of the above

What should you rely on to determine when to change your engine oil? 20 points

Oil color

6,000 miles since last oil change

Owner's Manual based on driving habits

6 months since last oil change

You can not mix conventional and synthetic engine oils. 20 points

Myth

Fact

ANOTHER SAMPLE DAILY "FORMATIVE" ASSIGNMENT

Join Zoom Meeting

<https://zoom.us/j/946750147?pwd=MFpUNTZ2OEFNS1lnVXNTSU9rKzU1dz09> - Thursday April 9th

This unit for Quarter 4 includes "Performing A Professional Oil Change"

ASSIGNMENT: After watching the two (2) videos included in this unit, find a vehicle available to you and take a picture or video of you performing either one of the following Basic Vehicle Maintenance operations:

1.) Checking the Engine Oil

-- or --

2.) Checking for Manufacturer Tire Pressure Sticker

BONUS POINTS ARE AVAILABLE IF YOU SUBMIT BOTH !! - Please be sure to send a personal message if you have chosen to do both ... :)

The picture(s) or video(s) should be uploaded to this Google Classroom and turned in on / before 4/9/20 @ 11:59PM

IN SUMMARY

- *KNOW YOUR SCHOOL, YOUR STUDENTS, YOUR COMMUNITY AND TRY TO DEVELOP A PROGRAM THAT CAN WORK FOR ALL AND NOT JUST A FEW - **BE FLEXIBLE !!***
- *ESTABLISH AND MAINTAIN "VIRTUAL" ROUTINES INCLUDING CLASS TIMES, OFFICE HOURS, ETC.*
- *BE SURE TO HAVE CLEAR ASSIGNMENTS WITH CLEAR INSTRUCTIONAL OUTCOMES INCLUDING BOTH **FORMATIVE & SUMMATIVE ASSESSMENTS.***
- *DON'T BE AFRAID TO "**MIX IT UP A BIT**" ON ASSIGNMENTS – WE ARE ALL PROFESSIONALS AND STUDENTS ENJOY A BIT OF VARIETY AND FUN IN LEARNING !!*
- *REMEMBER TO FIND & ESTABLISH TIME TO "**BOND**" WITH YOUR STUDENTS – "**WE ARE ALL IN THIS TOGETHER**"*

THANK YOU

QUESTIONS ?? / COMMENTS ??

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