

**MPHS CTE**

**Week 4/20-4/24**

# Ag Science Assignment

Week of April 20<sup>th</sup> – April 24<sup>th</sup>

If you are taking a class instructed by Rice, Hearn, Coberley or Hunnicutt answer the following question that pertains to you. Write in complete sentences and to the best of your ability. When finished you may turn in via email to your corresponding teacher. Our emails are [trice@mpisd.net](mailto:trice@mpisd.net) , [shearron@mpisd.net](mailto:shearron@mpisd.net) , [mcoberley@mpisd.net](mailto:mcoberley@mpisd.net) or [shunnicutt@mpisd.net](mailto:shunnicutt@mpisd.net) .

If you are planning on attending college after high school please describe the school of your choice, why you want to attend and what you would like to major in.

If you are planning on attending a trade school after high school, please describe what trade school you want to attend and what kind of certificate do you plan on obtaining. What will you want to do as a career afterwards?

If you are not planning on attending college or trade school, then tell me what you want to do for a career after high school? Describe how you are preparing yourself to make yourself marketable for a job after school.

# Arts/AV Classes

## Week 4

Classes include Principles of Arts/AV and Communications,  
Photography, Yearbook, Audio/Video Production, TNT

### Logos and Slogans

#### Marketing Practices

**Take the pre-quiz.**

1. Why do companies use logos and slogans?
2. What makes them effective?
3. How many can you think of off the top of your head?
4. What is your favorite?

Next watch the video.

<https://www.youtube.com/watch?v=UKc271fj2ok>

Reflection:

With what you have learned about some famous logos and slogans why do you feel they are effective?

Can you remember any that did not work?

Can you think of a new or better Tiger News Talk slogan?

**This assignment will also be on Edmodo in all of Mr. Whitten's classes.**

**If you are in yearbook and can work on yearbook pages, please contact Mr. Whitten either at 903-563-4252 or email at [jwhitten2@mpisd.net](mailto:jwhitten2@mpisd.net). All you need to have is a computer at home with internet service.**

**If you have any questions, email your teacher. We miss you all!**  
**[jwhitten2@mpisd.net](mailto:jwhitten2@mpisd.net), [tporter@mpisd.net](mailto:tporter@mpisd.net), [dmccarley@mpisd.net](mailto:dmccarley@mpisd.net)**

## **Automotive**

### **Automotive Tech 1**

Heating Ventilation and Air Conditioning

Website: [www.cdlearning.com](http://www.cdlearning.com)

Course access code: E2E643

Assignment: For the week of April 20 Thru April 24, students should log into CDX and continue working on Chapter 58. Within chapter 58 students should complete the pre test, all section quizzes, and end of chapter test.

Instructor Contact Info:

Zachary Strawbridge

[zstrawbridge@ntcc.edu](mailto:zstrawbridge@ntcc.edu)

### **Automotive Tech 2**

Engine Repair and Diagnosis

Website: [www.cdlearning.com](http://www.cdlearning.com)

Course Access Code: B822B7

Assignment: For the week of April 20 Thru April 24, students should log into CDX and complete Chapter 17. Within Chapter 17, students should complete the chapter pre test, all section quizzes, and the end of chapter test.

Instructor Contact Info:

Zachary Strawbridge

[zstrawbridge@ntcc.edu](mailto:zstrawbridge@ntcc.edu)

### **Auto body I & II**

I would like for the first year and the second year auto body students to explorer YouTube and find any video on auto body repairs. They can Email them to me at

[twhitworth@ntcc.edu](mailto:twhitworth@ntcc.edu) . Please watch the video and write down what you learn from it . Please give me details about what you found interesting and found helpful. You will send me one video per day that's five videos and five detailed statements on what you have learned.

Take care .

Tony Whitworth.

**PRICE GOUGING:**

Occurs when a seller increases the prices of goods, services or other commodities to a level much high than is considered reasonable or fair

The following are excerpts from “Coronavirus Gouging? Texas AG sues auctioneer for allegedly jacking up prices on 750,000 face masks”, written by Michael James from USA TODAY on March 27<sup>th</sup>.

The Texas AG (aka Attorney General) has accused an auctioneer (a person or business who sells items to the highest bidder, or the person willing to pay the most) of price-gouging, “disinfectant wipes, hand soaps, and 750,000 high-quality face masks- all items that are heavily sought after by consumers during the COVID-19 crisis”.

Texas AG Ken Paxton said, “bidding on N95 respirator masks pushed listings as high as \$180 for a package of 16 masks”. According to the article, “Auctions Unlimited... admitted to receiving warnings from both local police and the Texas AG, however, he moved forward with the... auctions”. The AG then filed a lawsuit against the auctioneer for the extra high prices.

Texas stopped the auction before all masks were sold, but the auction still profited a reported \$154,000 in sales, with the auction owner, Tim Worstell, personally earning about \$40,000.

The lawsuit states that the auctioneer is, “taking advantage of a disaster by offering for sale, and/or selling necessities such as face masks, hand sanitizer and cleaning supplies at exorbitant or excessing prices”. Auction owner Worstell has denied any price gouging and says all auctions start at \$1 and the bidders themselves raise the prices. He said, “it is literally impossible to price gouge using the auction method when ALL bids start at \$1!”... “the bidder, not Auctions Unlimited, decide the price”.

The Texas Deceptive Trade Practices Act prohibits anyone from selling necessary items at an excessive price when a disaster is declared.

**Amazon** sold a set of 100 similar face masks for \$4.21 in late January.  
**Auctions Unlimited** sold 16 face masks for \$180.

There is an open debate about price-gouging.  
Companies still need to make a profit, especially during economically tough times.  
But should needed crisis items be given at a discount? Or Free?

Do you think the state of Texas is right- that Auctions Unlimited took advantage of a crisis?  
Or ...  
Was Auctions Unlimited being fair, since all auctions start at \$1? (the price increases as buyers “bid” on the items)

**ASSIGNMENT:**

Write **YOUR OPINION** in at least 400 words. (typed or written.)  
Title your response, “Price Gouging”

# Carpentry

## Construction Tech. I and II

Go to website <https://www.instructables.com>

Go to lessons 1 thru 9 and complete

## Practicum of construction

Work on OSHA 30 hour course

## Jimmy Alston

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### Comments

There are 3 ways your student can return his/her work.

1. (Most preferred method) Students can email their work directly to the teacher(s). They can scan and email it, or even take a photo of completed pages and email those.


FOR OPTIONS 2 AND 3, BE SURE THE WORK IS LABELED WITH CHILD'S NAME, GRADE, AND CAMPUS!

2. Work can be dropped off at the campus on Monday from 11-1 during lunch pick up. New work will be available and completed work can be dropped off.

3. Work can be dropped off on Monday during after hours pick up.

CHANGE FOR WEEK TWO: After hours pick up and drop off will be at the individual campuses from 5:00-6:00 p.m. There will be no after hours at the Administration building on April 6th.

4. If none of those options will work for you, call your child's campus and they will make arrangements with you.

Thank you to all of our AMAZING families. We are sorry for everything you are having to endure right now. We hope to see all of our Tigers very soon  

Sent from my Verizon, Samsung Galaxy smartphone

Gays & Gals

I need feedback! Questions, Comments

Please e-mail me [jalston@mpisd.net](mailto:jalston@mpisd.net)

Do your assignments and get them turned in.

Mr. Alston

Alstora 4/13/20

AS 2

### SELECTING SAFETY ATTITUDES

Directions: Select proper attitudes by answering (T) for TRUE or (F) for FALSE in the space provided at the left of each statement.

- \_\_\_ 1. The reason someone usually gets hurt in a shop is because of carelessness.
- \_\_\_ 2. Safety in the shop applies only when you are operating machinery.
- \_\_\_ 3. Learning the skill is more important than learning safety on the job.
- \_\_\_ 4. Injuries should be reported at once.
- \_\_\_ 5. Accidents are usually caused by people.
- \_\_\_ 6. It is all right to break small, minor safety rules if you are careful.
- \_\_\_ 7. When lifting heavy objects, it is always best to lift with your back.
- \_\_\_ 8. Goals for safety should include keeping the work area clean, using safeguards, and obeying safety rules.
- \_\_\_ 9. Hand tools are safe and can't cause injuries.
- \_\_\_ 10. Horseplay is allowed in the shop if you are careful.
- \_\_\_ 11. Running in the shop is permitted only if you are in a hurry.
- \_\_\_ 12. Ask questions if in doubt about how to do a job in a safe manner.
- \_\_\_ 13. Protect your eyes at all times.
- \_\_\_ 14. Wear the clothing that is correct for the job.
- \_\_\_ 15. You can operate machines when you feel like it.
- \_\_\_ 16. Safety includes proper clean-up of equipment.
- \_\_\_ 17. It is not your responsibility to clean up oil spills that were made by others.



# COSMETOLOGY

## DISTANCE EDUCATION OVERVIEW

Distance Education: A formal instructional process in which the student and teacher are separated by physical distance and a variety of communication technologies are used to deliver instruction in theory to the student. Courses taught by distance education do not satisfy the requirements of the practical portion of the course curriculum.

Note: Distance Education hours are the only form of hours which can be completed without the presence of an instructor. If a student accrues hours by clock or credit, only the time system being used to account for distance education hours should be used to eliminate the possibility of duplicate credit for students.

## INSTRUCTIONS

Students will need to contact Ms. Aleshia Rivera-Palomino at [arivera@mpisd.net](mailto:arivera@mpisd.net) and provide a workable email. Once the email has been verified the student will be enrolled in the Distance Education Course and contacted through the email provided for further instructions.

Students will access their distance learning course either on a computer or a smart device. The first time they access or accept enrollment for the course needs to be on a computer.

# Culinary

ALL 4 LEVELS OF CULINARY ARTS

WEEK 4: April 20th 2020

Chef Anker: [kanker@mpisd.net](mailto:kanker@mpisd.net)

Mrs. Bradley: [mbradley@mpisd.net](mailto:mbradley@mpisd.net)

## Intro-- Mrs. Bradley's classes only

1. Students are to get onto Edmodo to complete their tasks. Join the Remind account if you have not already done so.

Edmodo	Remind (81010)
fvuwks	@66da7fa

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## Culinary Arts – Chef Anker 2<sup>nd</sup>/3<sup>rd</sup> period only

Remind: [@81010](https://www.remind.com/text-message/81010) text message: @hf3k6d

1. Choose any category that we have gone over this year so far and write or make a recipe. Send pictures of dish or written recipe to remind or email.

## Advanced Culinary Arts -- Chef Anker 7<sup>th</sup>/8<sup>th</sup> period only

Remind: [@81010](https://www.remind.com/text-message/81010) text message: @823e42

Now that you have chosen, described and costed your menu you need to start the design process. Create a rough draft of your menu (this is a rough draft and does not need every detail only what you intend to do and placement of items) Turn in on remind or email.

## Practicum in Culinary Arts – Chef Anker 4<sup>th</sup>/5<sup>th</sup>/6<sup>th</sup> period only

Remind: [@81010](https://www.remind.com/text-message/81010) text message: @39gghd – Create a rough draft Asian menu. This would be something like we did for restaurant in class. No less than 3 items in each category.



## Mrs. Sweeden's Education and Training

Another week out for distance learning and I still miss you guys! I would love to see each of you in a group discussion at your scheduled times on ZOOM. If you cannot log on and participate, please email me and we will chat in google hangouts.

**Practicum:** Seniors Online classes as usual. ZOOM meeting at 10 am on Monday



**Instructional Practices:** ZOOM 857-6442-1944 Password: 4zHXvX on Tuesday @11:00am to discuss your websites and portfolios. Some of you have not visited your site in quite a while. This is an end of year project that is a summative assessment. I will be available online for questions and assistance in updating your portfolios including the list of online resources for distance learning on a google doc. These will be added to your website as well. Make sure they are reliable, trusted websites (IE. ending in .gov, .edu, and occasionally .com) Give a brief synopsis of each sight. All grade levels are considered.



**Human Growth and Development:** ZOOM mtg ID: 863-8723-7400 Password: 1MEgsp on Tuesday @ 1;30 to discuss your next field based assignment. Those unable to connect will complete a indoor and outdoor social distancing game that practices safe and sanitary distancing while quarantined or in self isolation. We will consider all ages for these activities and practice with our groups online.



**Principles of Education:** ZOOM mtg ID: 892-8635-2762 PassWord: 8fXdHS on Tuesday @ 9:30 am. We will discuss your concerns about the current events in education. I want to know the impact of the new learning style you are currently faced with. Submit your responses to [tsweeden@mpisd.net](mailto:tsweeden@mpisd.net) on google docs.

If you have any questions, you can email me. Love you all!

The Sweed

**Mount Pleasant High School - CTE**  
**Electrical Technology Packet #4**

Date: April 13, 2020  
Instructor: Tim Davis  
Email: [tdavis@mpisd.net](mailto:tdavis@mpisd.net)  
[tdavis@ntcc.edu](mailto:tdavis@ntcc.edu)  
Office number: 903-434-8385 - 903-575-2081

Please email me if you should have any questions.

**Electrical Tech I**

- Students will need to use their textbook for this assignment. All electrical I students checked out a textbook at the beginning of the school year. If your child doesn't have a textbook please let me know.
- Students are to read and answer "Working with Nonmetallic-Sheathed Cable" review questions 1 - 30 for chapter 6. The questions will start on page 157 and end on page 158.
- Students can submit answers via email to [tdavis@mpisd.net](mailto:tdavis@mpisd.net).

**Electrical Tech II Dual Credit**

- Continue to use "Mike Holt" online format
- [www.capacitor.mikeholt.com](http://www.capacitor.mikeholt.com)
- **Check your NTCC email often**

Complete the review questions for all Units 7-15. You'll turn in or submit review questions via email, [tdavis@mpisd.net](mailto:tdavis@mpisd.net). Complete/submit all your test for Units 7 – 15. The units will be due April 30, 2020. Keep in mind, this is a Dual Credit class – students will need to have this assignment completed in order to receive college credit. If you need me to reset your password – email me.

**Prac in Electrical Tech –**

- **Check your NTCC email often.** Please contact me if you're having trouble logging into your NTCC email account. It's extremely important students communicate with their instructor during this time.
- Continue to use the online black board format. You must submit assignments.
- Students to read and answer Chapter 7 review and test questions.
- Please contact me if you're having a difficult time answering any of the questions. Some questions may require the use of the NEC. Several NEC codes can be found using the internet. Again, if you have trouble - please email me.

# Fashion Design 1&2

Week 4: April 20-24, 2020

All classes need to check Edmodo and iCEV.

Margaret Bradley  
Family and Consumer Sciences  
Mt. Pleasant High School, MPISD  
[mbradley@mpisd.net](mailto:mbradley@mpisd.net)



# Principles of Human Services

Week 4: April 20-24, 2020

All students need to check Edmodo on a regular basis.

Margaret Bradley  
Family and Consumer Sciences  
Mt. Pleasant High School, MPISD  
[mbradley@mpisd.net](mailto:mbradley@mpisd.net)



# FRESHMAN SKILLS ASSIGNMENTS

Mrs. Lockett (dlockett@mpisd.net)      Mr. Keeney (jkeeney@mpisd.net)  
Mrs. Fry. (sfry@mpisd.net)              Mr. Conley (dconley@mpisd.net)

I'm reposting the vocabulary to help with the assignment, if needed

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## BUDGETING/MONEY..... Vocabulary

1. Budget..... a spending plan and a savings plan for your money
2. Expenses.....the cost of items you want or need
3. Paycheck..... the amount of money you make from working
4. Gross Income.... the amount you make from working (i.e. you work 30 hours a week and you make \$5 an hour, your paycheck will be  $\$150.30 \times 5$ )
5. New Income.....the amount you have after you take deductions from your gross (\$150 is your paycheck, the government takes taxes from your paycheck. The taxes are \$40, so you make \$150 and after taxes, your paycheck will be  $\$110....\$150-\$40$ )
6. Checking Account.....an account at a bank where you can deposit your money to hold or spend later.
7. Deposit..... you put money in your checking account. You will add.
8. Withdraw..... you take money out of your account. You will subtract.
9. Fixed Expense.... things you pay for every month (i.e. a car note is a fixed expense, it's the same every month)
10. Variable Expense.... things you pay for and they cost different prices every month (i.e. electric bill, grocery bill, water bill)
11. Check.... a piece of paper that serves as cash. You can use a check like cash.
12. Debit Card.... a card that is linked to your checking account. You can spend the money from your checking account by using your debit card.

## BUDGET-----HOW TO EARN AND SPEND YOUR PAYCHECK

We have been discussing career clusters, colleges and careers after high school. Imagine you have your career established and you're making a lot of money. What will you spend it on? Use the information below to help you see how your parent(s) work to earn money and spend it on the household, family and entertainment. Remember your vocabulary words.

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YOU ARE EMPLOYED AND HAVE A MONTHLY INCOME OF \$5,000. YOU ARE THE ONLY PERSON IN THE HOME WORKING. YOU SAVE \$500. YOUR MORTGAGE/RENT IS \$500 A MONTH. YOUR UTILITIES (gas, water, electric) ARE \$250 A MONTH. YOUR GROCERY BILL IS \$300 A MONTH, CELL PHONE BILL IS \$150 (remember you are paying everybody's phone bill, ☺) YOUR CAR NOTE IS \$700 A MONTH AND THE INSURANCE IS \$150.

WHAT ARE YOUR EXPENSES FOR THE MONTH? \_\_\_\_\_

WHAT IS THE AMOUNT OF MONEY YOU HAVE LEFT? \_\_\_\_\_

SADLY YOUR TOILET IS CLOGGED AND YOU HAVE TO CALL A PLUMBER. IT COST YOU \$75 FOR THE SERVICE CALL AND \$125 TO FIX THE PROBLEM. HOW MUCH DO YOU HAVE LEFT TO LIVE ON UNTIL YOUR NEXT PAYCHECK? \_\_\_\_\_

YOUR SON COMES IN AND TELLS YOU HE NEEDS \$35 FOR SCHOOL PICTURES. HOW MUCH DO YOU HAVE LEFT UNTIL YOU ARE PAID AGAIN? \_\_\_\_\_

## Health Science Week 4 Home Assignment

**PHS w/ MRS AYERS & MRS BUMPUS** Week 4 (Mrs. Ayers class also finish OSHA certification)

Summary of Ch 4 & 6 Read the following information & make a quizlet or flashcards

1. Insurance Basics: *premium* is the monthly fee paid to receive insurance coverage; *deductible* is the minimum amount a pt must pay before the insurance company will pay for healthcare; *coinsurance* is the individual's costs compared to the insurance company's cost (ex: 80/20). 2. Legal Issues: *civil law* deals w/ property & personal rights, contracts, & personal injury; *criminal law* involves crimes against society, state, or the government; *defamation* is damaging someone's name/reputation; *slander* is verbal defamation (ex: gossip). 3. *Health Insurance Portability & Accountability Act – HIPAA* developed to obtain healthcare easier & protect personal health info. 4. Breaching confidentiality can include financial penalties & jail time. 5. *Power of attorney (POA)* appoints someone to make healthcare decisions for a person that is not able to make choices. 6. *Occupational Therapists (OT)* restores vocational & daily living skills. 7. *Postgraduate*-education/training completed after receiving a bachelor's degree. 8. *Oncologists* diagnose/treat cancerous tumors. 9. *Physician's Assistants (PA)* practice medicine under the supervision of a physician. 10. *Delegate* is to direct another employee to perform healthcare. 11. *Collaborate* is to work together or consult each other. 12. *Standard precautions* include steps to take w/ all pts to prevent the spread of infection. 13. *Nosocomial infections* are hospital-acquired. 14. *Non-intact skin* – broken skin, includes rashes. 15. *Personal Protective Equipment (PPE)* creates a barrier to protect from infections such as gloves, mask, gown). 16. *Contraindicated* means that the pt has a particular condition that makes normal care uncomfortable/dangerous for that pt. 17. *Range-of-Motion (ROM)* are exercises that move each joint. 18. *Interview etiquette* is accepted appearance/behavior. 19. *QOD* – every other day. 20. *-pnea* – breathing

### **Mrs. Bumpus Health Science Theory Week 4**

This week, the focus will be on patient ambulation (walking). Ambulation is important for most people to perform their activities of daily living and helps improve circulation and muscle tone. When patients admitted to the hospital start ambulating early in their stay, they have better lung function. Research studies have also shown early ambulation in the first 1 to 2 days of a hospital stay leads to shorter hospital stays with patients being discharged approximately 2 days earlier than those who don't ambulate early and often while hospitalized. When assisting a patient to ambulate in a healthcare facility, follow these steps: 1) ask them if they are in pain, and if they are, ask the nurse about pain medication before you help the patient ambulate, 2) see if there is any assistive equipment you will need like a gait belt, 3) gather the equipment, supplies, and other staff members if needed, 4) check for the safety and lock the bed before assisting the patient to sit on the side of the bed before standing, 5) if you are getting assistance from other staff, make sure you have told them what you want them to do to help you, 6) tell the patient what you expect them to do so they understand before they get up, 7) show the patient what you want them to do and help them during the movement, 8) make sure you are using good posture and body mechanics, 9) if the patient collapses during ambulation, do not try to carry, hold, or



catch them, instead plant your feet in a broad stance with one foot slightly in front of the other between the patient's legs, and hold the patient under the arms and ease them down onto the floor using your body as an incline, 10) family members or friends who are there may be able to help the patient ambulate as long as the nurse has approved this and the person is comfortable with the procedure.

Review this sheet and the sheet from last week to help you remember the information covered so far in chapter 13. Be safe! ☺

**Ayers Practicum 2-Medical Assisting** – Check your email/Remind for your assignment. You can message me on Remind (2/3 period @mrssaayer (no "s") or 4/5 period @ccma45) or email me at [aayers@mpisd.net](mailto:aayers@mpisd.net) if needed.

**Practicum 1:**

- Study EKG material on nhanow.com and quizlet
- visit skillstat.com and go through the "learn" portion and play the "game" for EKG rhythm practice.
- Choose 5 EKG rhythms, describe the rhythm in your own words and the characteristics you look for to identify the rhythm. You must specify if the rate is regular or irregular. Remember to use P wave abnormalities, rate, "wide or narrow", and T wave abnormalities to describe your rhythm. Email this assignment to [wmccall@mpisd.net](mailto:wmccall@mpisd.net).

Your certification test will have to be postponed. I do not have a new test date scheduled at this time but I will let you know as soon as we have a new date on the calendar. Stay safe! I miss you all!

- Mrs. McCall

**Anatomy & Physiology-** The power point for the Respiratory Tract is in Edmodo. Please use it to answer the following questions: (1.) Differentiate the parts of the Upper and Lower Respiratory tract. (2.) Where does gas exchange take place? (3.) How is the Nasal Cavity separated from the mouth? (4.) Which Cranial Nerve is responsible for smell? (5.) How are dust and foreign particles filtered out in the nasal cavity? (6.) Name the 3 parts of the pharynx. (7.) What is the function of the Larynx? (8.) Describe the Epiglottis. (9.) What is the purpose of the C-shape rings to the trachea? (10.) What are the alveolar sacs? (11.) Which bronchus is used for intubation and why? (12.) How many lobes do the right and left lung have? (13.) What is the pleural cavity? We miss you all! Stay safe!!

**Practicum II-C.N.A.-** Please email me how you are continuing to study for your certification exam. Take a cnatutor.org test and submit your score to me at [khouchin@mpisd.net](mailto:khouchin@mpisd.net). I miss you all! Stay safe!!

# LAW ENFORCEMENT

## Principles of Law - Law Enforcement 1- Law Enforcement 2 - Forensic Science WEEK 4

### Principles of Law/Chamness:

#### DIRECTIONS:

Log onto iCEV Online – [www.icveonline.com](http://www.icveonline.com)

Review all PowerPoints and watch all videos pertaining to the topics listed below:

- 1) Crime Scene Documentation
- 2) Criminal Investigation Basics

When complete, finish the three (3) activities and assessments found under the interactive tab.

### Law Enforcement 1/Chamness:

#### DIRECTIONS:

Log onto iCEV Online – [www.icveonline.com](http://www.icveonline.com)

Review all PowerPoints and watch all videos pertaining to the topics listed below:

- 1) Crime Scene Sketching
- 2) Criminal Investigation Basics

When complete, finish the four (4) activities and assessments found under the interactive tab.

### Law Enforcement 2/Bailey:

#### DIRECTIONS:

Log into your MyEagle Portal on NTCC website - <https://ntcc.onelogin.com/>

Work through and complete the folder entitled Chapter 14: Understanding and Helping Victims. View videos, complete assignments, and respond to the discussion post. If you need to, take a picture of any completed assignments and email them to me at [ebailey@mpisd.net](mailto:ebailey@mpisd.net)  
Please email me if you have any questions or need your log in information.

### Forensic Science/Parker:

#### DIRECTIONS:

Log onto Schoology - <https://www.schoology.com/>

You now have assignment folders for 3/30/2020, 4/6/20 and 4/13/20 on Schoology.com. If you have not started your assignments, please do so. You may take pictures of your completed assignments and send them to me on Schoology.

Check the resources folder, if needed, for any additional resources to help you complete your assignments. If you have questions, email me on Schoology. If you have difficulty with your login, email me at [sparker@mpisd.net](mailto:sparker@mpisd.net)

#### **INSTRUCTOR CONTACTS:**

Elizabeth Bailey: [ebailey@mpisd.net](mailto:ebailey@mpisd.net) - Law Enforcement 2

Ricky Chamness: [rhamness@mpisd.net](mailto:rhamness@mpisd.net) - (903) 285-1956 - Principles of Law, Law Enforcement 1

Sadonna Parker: [sparker@mpisd.net](mailto:sparker@mpisd.net) - Forensic Science

## **Lisa Trimm: Scientific Research and Design**

### **Purpose:**

The purpose of this activity is for students to gather some baseline information, make one variable and test the results, make another variable and test the results, choose a paper plane design that they believe will fly the farthest and test the results, graph the longest and average distances flown for each of paper plane trails.

### **Objectives:**

Make and fly a paper airplane.

Follow directions in making a complex paper plane design.

Organize and graph data collected.

write-up experimental procedures, results, and conclusions.

### **Resources/Materials:**

way to measure distance

paper clips or weight of some sort

paper

scissors

**DATA SHEET:** Name \_\_\_\_\_

Date \_\_\_\_\_

Type of plane \_\_\_\_\_ (ie. paper clip plane)

Distance flown:

Trial 1 \_\_\_\_\_

Trial 2 \_\_\_\_\_

Trial 3 \_\_\_\_\_

Trial 4 \_\_\_\_\_

Trial 5 \_\_\_\_\_

Shortest trial \_\_\_\_\_

Next \_\_\_\_\_

Next \_\_\_\_\_

Next \_\_\_\_\_

Longest trial \_\_\_\_\_

Average \_\_\_\_\_ Median \_\_\_\_\_

Other information:

**Activities and Procedures:**

To test your paper airplanes, you will need plenty of space (outdoors might be best). Ask a parent, sibling or someone else to help you with your test trials.

Each student will have five trials to fly his/her plane. The student will record the distance for each trial. After five trials, the student will organize the data from shortest flight to longest flight. Calculate the average and median distance. Data sheets should be emailed, text, or uploaded to google classroom.

Using the same airplane design students will repeat the procedure using a paper clip or small weight on the end of the plane. This will be the one variable tested.

Using the same airplane design students will make flaps at the back of the plane. Flaps are made by cutting four slits on the rear edge of the wings and folding the slotted portion up. The plane is tested as before.

Assign each type of plane a color for graphing. Students will horizontally graph the results of the longest flight and average flight for each type of plane; plain paper, paper clip, and flaps. (Other variations may be tried but are not required; such as 14 inch paper versus 11 inch or various weights of paper could be used from onion skin to construction paper.)

### **Tying it all Together:**

After the graphs are finished, they should be displayed with the data sheets. Review the scientific process. Review what was tested and what was changed for each series of flights. See how the predictions of the longest flying experimental design turned out. Using the graphs check if one design was always the farthest flying. Check the graphs to see if one variable made a difference in distance for the majority of planes and discuss why it did not work for all planes. Students should be able to outline other things which could be tested.

# STEM

Principles of Engineering | Engineering Design I & II | Practicum in Engineering | Manufacturing Engineering | Practicum in Manufacturing | Programming I  
Week of April 20<sup>th</sup> | Assignments are listed by class | Emails: [dmccarley@mpisd.net](mailto:dmccarley@mpisd.net) | [jjones@mpisd.net](mailto:jjones@mpisd.net)

## \*\*\*\*\*Principles of Engineering\*\*\*\*\*

Please be familiar with the following:

**Mouse Buttons:** Mouse buttons operate in the following ways: Left: Selects menu items, entities in the graphics area, and objects in the FeatureManager design tree. Right: Displays the context-sensitive shortcut menus. Middle: Rotates, pans, and zooms a part or an assembly, and pans in a drawing. You can use a mouse gesture as a shortcut to execute a command, similar to a keyboard shortcut. Once you learn command mappings, you can use mouse gestures to invoke mapped commands quickly.

**Mouse gestures:** To activate a mouse gesture, from the graphics area, right-drag in the gesture direction that corresponds to the command. When you right-drag, a guide appears, showing the command mappings for the gesture directions. The guide highlights the command you are about to select.

**Customizing the User Interface:** You can customize the toolbars, menus, keyboard shortcuts, and other elements of the user interface.

**Handles:** You can use the PropertyManager to set values such as the depth of an extrude. You can also use graphic handles to drag and set parameters dynamically without leaving the graphics area.

**Previews:** With most features, the graphics area displays a preview of the feature you want to create. Previews are displayed with features such as base or boss extrudes, cut extrudes, sweeps, lofts, patterns, and surfaces.

## \*\*\*\*\*Engineering Design I & II & Practicum in Engineering\*\*\*\*\*

Email me if you want to download SolidWorks. A good way to spend some time is perusing [www.instructables.com](http://www.instructables.com). Another good way to spend some time is learning to code on [www.code.org](http://www.code.org). Send me an email and I can help you get set up. [jjones@mpisd.net](mailto:jjones@mpisd.net)

## ASSIGNMENT

Brainstorm ideas on how schools could be redesigned to increase social distancing. Focus this week on **lunch/cafeteria**. Write down as many ideas as you can for 5 minutes. Maybe involve your siblings. Then go back through these and send me your 10 best. You can email me or send a text to my email address. I will compile your responses for the next phase.

**Social distancing** means remaining out of congregate settings, avoiding mass gatherings, and maintaining distance (approximately 6 feet or 2 meters) from others when possible. (cdc.gov)

## \*\*\*\*\*Manufacturing Engineering & Practicum in Manufacturing\*\*\*\*\*

Log on to [www.learnamatrol.com](http://www.learnamatrol.com) and continue your lessons and tests. I will be watching and will reset your tests when needed. Send me an email if you have any questions. [jjones@mpisd.net](mailto:jjones@mpisd.net)

## \*\*\*\*\*Programming I\*\*\*\*\*

Log on to [www.code.org](http://www.code.org) and continue your lessons. Send me an email if you have any questions. [jjones@mpisd.net](mailto:jjones@mpisd.net)