



MPHS CTE

Week 4/27-5/1

Ag Science Packet

Week of April 27th through May 1st

Directions: If you are taking any class instructed by Mr. Rice, Mrs. Coberley, Ms. Hearron and Mr. Hunnicutt please do the following assignment. There is an article called "Biodiversity". Please read the article then answer the questions. The internet is not required for this assignment, please answer the questions to the best of your abilities after reading the article. If you have any questions pertaining to the assignment or need to turn in an assignment do it via email. The instructors email is listed below.

trice@mpisd.net , shearron@mpisd.net , mcoberley@mpisd.net or shunnicutt@mpisd.net

Article Source

Biodiversity

Bakermans, M.H., & Rodewald, A.D. (2002) *Enhancing wildlife habitat on farmlands* (pp.1-4, Rep.). Columbus, OH: The Ohio State University Extension.



Background: Biodiversity

The meaning of *biodiversity* can be found by studying the word itself: *bio*, meaning life, and *diversity*, meaning variety. Biodiversity refers to the variety of life on Earth at all levels — from genes to ecosystems. Wetlands are among the most productive ecosystems in the world, comparable to rainforests and coral reefs.

Wetlands are transitional zones between aquatic environments and terrestrial environments. Swamps, bogs, coastal and inland marshes and fens are all types of wetlands. Wetlands occur in both freshwater and saltwater systems on every continent, except Antarctica. They occur in every climate from the tropics to the tundra.

Wetlands have been called “biological super systems” because they produce quantities of food that support countless species. With shallow water and high levels of nutrients, a wetland is ideal for the development of organisms that form the foundation of the food web. More than one-third of the threatened and endangered species in the United States live only in wetlands and nearly half use wetlands during their lifespan.

Not only do wetlands harbor a remarkable diversity of life, but they are also often the delivery system for water to a farm. They benefit farmers by regulating water and creating cleaner water through their natural filtration system.

Farmers with wetland habitats on their property are adopting practices that attract wildlife and improve biodiversity. Some of these practices include:

1. **Integrated Pest Management:** Using non-chemical pest control strategies including cultural, mechanical and biological controls as well as good sanitary practices.
2. **Pesticides:** Correctly applying pesticides and installing pesticide exclusion strips approximately 30- to 60-feet wide at the edges of fields.
3. **Food Plots:** Leaving 10–12 rows of unharvested, standing crop along the entire length of field edges (especially sides next to wetland areas) to provide overwinter food for animal species.

As of September 2017, farmers had enrolled more than 23 million acres of their land in the Conservation Reserve Program, a voluntary program that aims to reduce soil erosion, improve water quality and maintain fish and wildlife habitat. By working together, farmers are finding a balance between growing and producing food, as well as responsibly preserving water and land, without threatening wildlife habitat or agriculture.

Questions for discussion:

1. What is biodiversity, in your own words?
2. What ecological benefits do farmers receive from wetland preservation?
3. How can farmers contribute to the preservation of wetlands?

ANIMATION 1 PACKET #1 – Week 4

Ms. McDowell jmcowell@mpisd.net

Remind App Code: 3bb2fk

Hi Awesome Animators!

Although this is Week 4 of assignment packets, this is the first assignment for Animation. *You have not missed any previous assignments!!* I know most students don't have computer/internet access at home, let alone Animate software (expensive!!). Therefore, keep an eye out for these worksheets in the next several weeks.

Right before Spring Break, we were starting to work on **walk cycles** in Animate. Walk cycles are unique to their characters. Think about your favorite animated character on tv/movies. How does their walking style relate to their emotions, experiences or personality? Do they limp? Are they sneaking around? Sad? Running?

In the following boxes, create 2 different walk cycles and assign them an emotion or personality. I'll give you an example.

CHARACTER: Excited skipping – joy or anticipation



#1. CHARACTER: _____

#2. CHARACTER: _____

Arts/AV Classes

Week 5

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

Photography/Videography Ethical Decisions

Watch the video and then answer case study questions regarding photography and videography.

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

Case Study Questions. Answer the following questions with your opinion. Write 2-3 sentences for each question. The questions are also on Edmodo in Mr. Whitten's and Mrs. Porter's classes.

1. If you were the photographer in the video, would you have taken the photo of the man falling? Why or why not?
2. A photographer happens to witness a horrific catastrophe, and is the only person to capture the event on film. A media company offers the photographer \$500,000 for the images and copyrights to broadcast on its TV show. **Question:** Is it ethically wrong for the photographer to accept the large sum, because it would mean profiting from awful misfortune?
3. You take pictures of a celebrity for a magazine shoot? They ask you to manipulate the photos to make them look more beautiful. Would you Photoshop the photo or not? If so what body parts are you OK with Photoshopping? If you wouldn't, why not?

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. I can send you the login information.

If you have any questions, email your teacher. We miss you all!
jwhitten2@mpisd.net, tporter@mpisd.net, dmccarley@mpisd.net

Automotive

Automotive Tech 1

Heating Ventilation and Air Conditioning

Website: www.cdxlearning.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

Automotive Tech 2

Engine Repair and Diagnosis

Website: www.cdxlearning.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

Auto body I & II

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

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.

BUSINESS Packet #5

BIM1&2

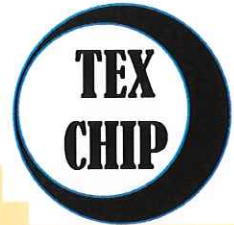
CAP

Marketing

Accounting

Principles Business

Marketing and Budget for TEX CHIP (a fictional company)



TEX CHIP is a company that specializes in creating computer chips. Although Texas is part of their name, it's a national company that ships all across the U.S.! They're a relatively new company, so they're turning to you for help to get some things figured out!

TEX CHIP's total profit for 2019 was \$950,000. They have 20 employees, each person earning a salary of \$35,000. Their shipping costs were \$20,000 and the cost of materials to make the computer chips were \$15,000.

Since there's a fairly small, yet successful company, they're looking to start advertising nation-wide! They want people to know they're a small company, focused on creating high-quality products and family-owned. They are keeping their manufacturing in Texas, to support the state economy and help provide more job opportunities for Texans.

1. Using their total profit from 2019, how much money was left over after paying their employees?
\$ _____

2. How much is their business costs, added together? \$ _____

3. Subtract your answer in #2 from your answer in #1. This will tell them how much profit went back to the company after costs and salaries. \$ _____

4. TEX CHIP is expecting a 10% growth in sales for 2020. If costs and salaries remained the same, how much profit would the company receive in 2020? (Hint: multiply by 0.10, but don't forget that's the amount it will increase! Add it to their 2019 profit)

Step 1: 2019 Profit x 0.10 = Extra Profit Earned Next Year

Step 2: Extra Profit Earned + 2019 Profit = 2020 Profit

YOUR ANSWER: \$ _____

5. How much does national advertising cost?
(research your answer online **OR** find 3 different adults you know & ask them how much they think it'd cost)

RESEARCHED COST: \$ _____ **OR** 1. _____ 2. _____ 3. _____

6. With these profits & cost of advertising in mind, would you **encourage** TEX CHIP to do national advertising **or** **wait** till they have more profit? Why? _____

Ms. McDowell jmcdowell@mpisd.net

BIM1 Remind App: af9bkk

Principles Remind App: k8bgckb

Mrs. Scoggins jscoggins@mpisd.net

Mrs. Davis davidd@mpisd.net

Carpentry Lesson Plans

Construction Tech. I and II

Go to <https://www.skillshare.com/browse/woodworking>

Click on Table saw safety tips and rules for beginners

Work all sections.

Practicum of Construction

Work on OSHA 30 Hour Course

Jimmy Alston

4/20/20

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.

Alston 4/20/20

AS 3

MATCHING SAFETY TERMS AND SITUATIONS

Directions: Match the statement on the left with the correct word or words on the right. Place the correct letter in the space provided to the left.

- | | | |
|-----------|--|-----------------------------|
| _____ 1. | When working with sharp tools always | A. Wood handles |
| _____ 2. | Hand tools should be | B. Cap |
| _____ 3. | All files should have | C. Not allowed |
| _____ 4. | Protect your eyes when | D. Grounded |
| _____ 5. | To prevent accidents, always | E. Slip and fall |
| _____ 6. | A person who violates safety rules should be | F. Third degree |
| _____ 7. | Oily rags are to be placed in a | G. Frayed cords |
| _____ 8. | Spilled oil and grease can cause you to | H. Carelessness |
| _____ 9. | Contain long hair with a | I. Good habit |
| _____ 10. | Power tools should be properly | J. Flying chips |
| _____ 11. | Training for safety creates | K. Extinguishers |
| _____ 12. | Lifting with your back can cause | L. Grinding |
| _____ 13. | Eye injuries can be caused by | M. A law protecting workers |
| _____ 14. | Electrical shock can result from | N. Safety awareness |
| _____ 15. | Working safely is a | O. Metal container |
| _____ 16. | Know how to fight fires with | P. Reported |
| _____ 17. | Charred flesh burns are | Q. A bad injury |
| _____ 18. | OSHA is | R. Cut away from you |
| _____ 19. | Accidents are caused by | S. Stay alert |
| _____ 20. | Horseplay in the shop is | T. Kept clean and repaired |

Satisfactory completion of this assignment sheet partially fulfills competency A-2 of Building Maintenance.

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 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 5: April 27th 2020

Chef Anker: kanker@mpisd.net

Mrs. Bradley: 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

*****Chef Anker:

This week is a little break from the last few weeks...

All Chef Anker's classes do the following assignment: Cook anything you want, plate it professionally, take a picture and email it or text it to remind. I don't care what the food is but remember the plating rules and have fun with it and get creative! Miss you all! Stay well and keep cooking 😊 -Chef

Culinary Arts -- Chef Anker 2nd/3rd period only

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

Advanced Culinary Arts -- Chef Anker 7th/8th period only

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

Practicum in Culinary Arts -- Chef Anker 4th/5th/6th period only

Remind: [81010](https://www.remind.com/join/81010) text message: @39gghd



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. We will be presenting our portfolios to our peers and critiquing them with a rubric provided in this link: 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. You will create a weekly schedule of your daily lives while practicing social distancing. Be as clear and concise as you document your schedule in 15 minute increments throughout each day beginning @9:00am Tuesday 4/48/20 and completing on Friday 5/1/20 @ 10:00pm.



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. Let's plan your next school year! I want to help you all design your schedule. I want to know the impact of the new learning style you are currently faced with. Complete this in google and submit your responses to 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 #5

Date: April 20, 2020

Instructor: Tim Davis

Email: tdavis@mpisd.net

tdavis@ntcc.edu

Office number: 903-434-8385 - 903-575-2081

Please email me if you should have any questions and/or help.

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 Metallic-Sheathed Cable" review questions 1 - 30 for chapter 8. The questions will start on page 195 and end on page 196.
- Students can submit answers via email to tdavis@mpisd.net.

Electrical Tech II Dual Credit

- Continue to use "Mike Holt" online format
- 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 or at drop off point at MPHS. 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. Please contact me if you're having trouble logging in.

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.
- Chapters and test 1 – 7 will be due April 20, 2020. The assignments must be submitted on black-board for credit. Once you have completed the chapters and test 1 – 7, complete the soft skills 1 – 6 in Black-board/MindTap
- 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 5: 4-27/5-1

All classes need to check Edmodo and iCEV.

Margaret Bradley
Family and Consumer Sciences
Mt. Pleasant High School, MPISD
mbradley@mpisd.net



Principles of Human Services

Week 5: 4-27/5-1

All students need to check Edmodo on a regular basis.

Margaret Bradley
Family and Consumer Sciences
Mt. Pleasant High School, MPISD
mbradley@mpisd.net



FRESHMAN SKILLS ASSIGNMENT

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

We have discussed the paycheck and how to deposit (add money) or withdraw money (subtract money). When you receive your paycheck, you will have to cash it somewhere. Some people cash their checks at a store. The store will charge you \$2 or more for cashing your paycheck. Most people use a bank or credit union to cash their paychecks. You can go a bank or credit union and open an account. You can open a savings account (an account where you save your money) or you can open a checking account. With a checking account, you can deposit your paycheck and use a debit card to spend your money. With a savings account, there is no debit card to use. You will have to withdraw your money to spend. Both accounts are good, it depends on what is best for you. Some people use a bank and some people use a credit union. Both will help you purchase a car, house, etc.

Research both (banks/credit unions) and see if either one is good for you. If cashing your paycheck at the local store is good, please note on your assignment.

If you have any questions, please don't contact your teacher.

Shanta Lockett, Sara Fry, Drew Conley, Jason Keeney

BANKING AND CREDIT UNION

WHAT IS THE DIFFERENCE BETWEEN A BANK AND A CREDIT UNION?

WHAT IS A BANK?

A bank is a financial institution where customers can save or borrow money. Banks also invest money to build up their reserve of money. Banks may give loans to customers under an agreement to pay the money back to the bank later with interest. (interest is when you loan money to somebody and they give you extra money for allowing them to borrow the money)

WHAT IS A CREDIT UNION?

CREDIT UNION IS A COOPERATIVE, NOT-FOR-PROFIT, FINANCIAL INSTITUTION, OWNED AND OPERATED BY ITS MEMBERS. A CREDIT UNION DOES TWO THINGS:

- A. ENCOURAGES AND HELPS MEMBERS SAVE REGULARLY THROUGH PAYROLL DEDUCTIONS/DIRECT DEPOSIT (direct deposit is where your payroll check goes to your bank from your employer)

- B. ALLOWS MEMBERS TO BORROW FUNDS AT A FAIR RATE

ASSIGNMENT: research the two and see which one would be your choice; or would you prefer to cash your paycheck at the local store. You do not have to have a bank or credit union but most people do.

Health Science Week 5 Home Assignment

PHS w/ MRS AYERS & MRS BUMPUS- Week 5 Summary of Ch. 7 & 8 Read the following information & make a quizlet or flashcards. (Ayers class finish OSHA certification & make your vocab quizlets or flashcards (see Remind) @phsmphs)

1. Learning to communicate assertively reduces anxiety & increases self-esteem. 2. Knock before entering pt room, conducted interviews in private, greet pt with a formal title, & give your name and title. 3. Face pt at eye level & make eye contact. 4. Avoid talking about your problems & ask open-ended questions. 5. Communication barriers include environmental, sensory, cognitive, & cultural. 6. Financial incentives are offered to providers that demonstrate "meaningful use". 7. The "face page" of a pt's chart shows contact info, insurance info, & medical hx. 8. Never delete errors, make an addendum to correct then add signature & credentials, date, & time. 9. To use military time (24-hr clock): use 4 digits, no colons, do not use p.m/a.m. 10. The metric system (International System of Units) uses four basic units of measurement: meter, gram, liter, & Celsius. 11. The routes meds can be given include oral, rectal, topical, sublingual, injection, inhalation. 12. Organizational chart helps workers understand who is responsible for each job. 13. "Chain of command" clarifies how workers should bring problems up through the lines of authority; if not addressed, move up the chain of command. 14. "Handoff care report" is used when transferring the care of a pt to another worker to explain a pt's current situation. 15. Continuing education units (CEUs) includes coursework that ensures the individual remains up-to-date on knowledge/skills in the field. 16. False imprisonment includes wrongful use of restraints or not letting a pt leave. 17. Assault is using words or actions that lead a person to fear that you intend to cause harm. 18. Battery is touching a person w/o his consent. 19. The OSHA Act states employers must provide a work environment free of hazards. 20. Match the correct pt to the correct tx by asking for the pt's name, birth date, or address.

Mrs. Bumpus Health Science Theory Week 5

Based on the review sheet from last week for Health Science Theory, answer these questions to the best of your ability and submit via email to sbumpus@mpisd.net. You can write the answers on notebook paper and take a pic and email that if it's easier for you: 1) Name 3 benefits of exercise, 2) Why is proper body alignment important, 3) Why is it important to anticipate the needs of patients during ambulation, 4) What are some possible safety hazards that might happen when helping patients to ambulate? Some patients require assistive devices when they ambulate. These devices may include crutches, walkers, or canes. Crutches are usually used for short-term mobility problems like a broken leg or sprained ankle. Walkers are used for people who have had major procedures like hip replacement or knee replacement, and also for the elderly who may have problems with balance or stability. Canes are used when someone has trouble maintaining stability and balance for a prolonged period of time or when arthritis has caused restricted movement of joints.

Practicum 1:

- Study EKG material on nhanow.com and quizlet
- Take the next EKG practice test "version C" on NHA

Miss you guys!! -Mrs. McCall

Anatomy & Physiology: Please answer the following questions over the Respiratory System and submit them to Mrs. Houchin (khouchin@mpisd.net) or Mrs. McCall (wmccall@mpisd.net) via their email. The notes are in Edmodo. (1.) Define Inspiration and Expiration. (2.) What is the main muscle for pulmonary ventilation? (3.) What are the muscles used for normal inspiration and expiration? (4.) What muscles are called upon to assist with deep inspiration and forced expiration? (5.) What factors influence breathing? (6.) Describe how atmospheric pressure drives respiration. (7.) Define Tidal Volume. (8.) How is carbon dioxide transported in the blood? (9.) What is the primary way oxygen is transported in the blood?

Ayers Practicum 2-Medical Assisting – Check your email/Remind for your assignment. You can message me on Remind or email me at aayers@mpisd.net if needed. Be sure to complete your CCMA practice exam A #4.

Practicum II: C.N.A.- Look up USDA my plate. How is the plate divided up among the food groups? What foods are included in these groups? How does a resident's culture/religion play into what foods they eat? How can a hospital/nursing home honor a resident's culture/religion to what foods are served in their facility? Research the different types of diets a resident may be on due to a particular disease such as diabetes, hypertension, hypoglycemia, renal failure, etc. How do they impact a resident's diet? Please submit your work to khouchin@mpisd.net.

LAW ENFORCEMENT

Principles of Law - Law Enforcement 1- Law Enforcement 2 - Forensic Science WEEK 5

Principles of Law/Chamness:

DIRECTIONS:

Log onto iCEV Online – www.icveonline.com

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

- 1) Criminal Justice Courts and Systems
- 2) Criminal Law, History, and Development

When complete, finish the activities and assessments found under the interactive tab.

Law Enforcement 1/Chamness:

DIRECTIONS:

Log onto iCEV Online – www.icveonline.com

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

- 1) Crisis Management: Fundamentals
- 2) Employability Skills

When complete, finish the 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/complete → Chapter 16: Contemporary Challenges in Criminal Justice.

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

Please email me if you have any questions or need your log in information.

Forensic Science/Parker:

DIRECTIONS:

You have assignment folders for 3/30/2020 through 4/27/20 on Schoology.com. There have been many questions concerning the due dates. If the folder is marked 3/30, the assignments start on Monday 3/30 and you have that week to complete them. If you have not started your assignments, please do so. We will be sending copies of completed work to the counselors soon. It is best to send your assignment in digital form, but make sure that I can read your answers. Take CLOSE UP pictures of your completed assignments and send them to me on Schoology or send them in file form. When you send me and email on Schoology, the options will be listed below the text box. Check ALL of your material in your folder. There may be additional instructions that answer many of your questions. There may also be quizzes that need to be taken in the Quizzes Folder by a certain date. 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. Stay safe and well. See you soon.

INSTRUCTOR CONTACTS:

Elizabeth Bailey: ebailey@mpisd.net - Law Enforcement 2

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

Sadonna Parker: sparker@mpisd.net - Forensic Science

Paper Football

Materials Needed

- Materials from around the house to create goal posts.
- Scissors
- Tape/ glue
- Paper

At-Home Instructions

- Build two goal posts using objects found around the house.
- Find a smooth flat surface to use as the game field.
- Fold sheets of paper into different shapes including triangles, squares or crumpling the paper into a ball.
- Attempt to make field goals by flicking these newly created shapes through the goalposts.
- ***Discover which paper shapes travel the farthest and highest!***

Document how you applied the scientific method to this task.

1. Purpose: What are you trying to find out?
2. **RESEARCH**
3. Hypothesis: If.....then....
4. Experiment: What does your experiment look like?
5. Analysis (GRAPH)
6. Conclusion: Was your hypothesis correct?

STEM

Principles of Engineering | Engineering Design I & II | Practicum in Engineering | Manufacturing Engineering | Practicum in Manufacturing | Programming I

Week of April 27th | Assignments are listed by class | Emails: dmccarley@mpisd.net | jjones@mpisd.net

*****Principles of Engineering*****

Please be familiar with the following:

Pointer Feedback: In the SOLIDWORKS application, the pointer changes to show the type of object, for example, a vertex, an edge, or a face. In sketches, the pointer changes dynamically, providing data about the type of sketch entity and the position of the pointer relative to other sketch entities. To select a midpoint, right-click the line or edge, then click Select Midpoint.

Selection Filters: Selection filters help you select a particular type of entity, thereby excluding selection of other entity types in the graphics area. For example, to select an edge in a complex part or assembly, select Filter Edges to exclude other entities. Filters are not restricted to entities such as faces, surfaces, or axes. You can also use the selection filter to select specific drawing annotations, such as notes and balloons, weld symbols, and geometric tolerances. Additionally, you can select multiple entities using selection filters. For example, to apply a fillet, a feature that rounds off edges, you can select a loop composed of multiple adjacent edges.

Select Other: Use the Select other tool to select entities that are visually obscured by other entities. The tool hides the obscuring entities or lets you select from a list of obscured entities.

*****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.

Another good way to spend some time is learning to code on www.code.org. Send me an email and I can help you get set up. jjones@mpisd.net

ASSIGNMENT

Brainstorm ideas on how schools could be redesigned to increase social distancing. Keep in mind that it doesn't have to be a *physical* redesign. Focus this week on **hallways in passing period**. 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.

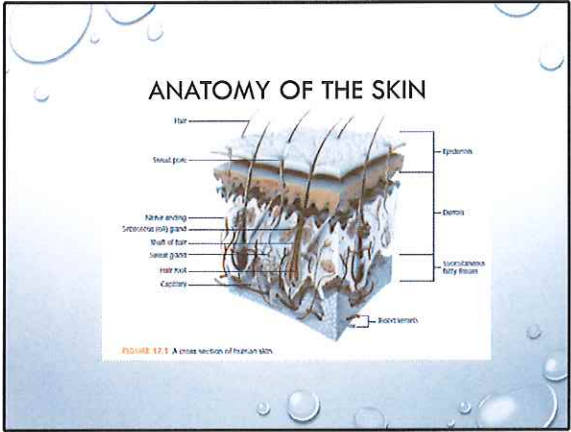
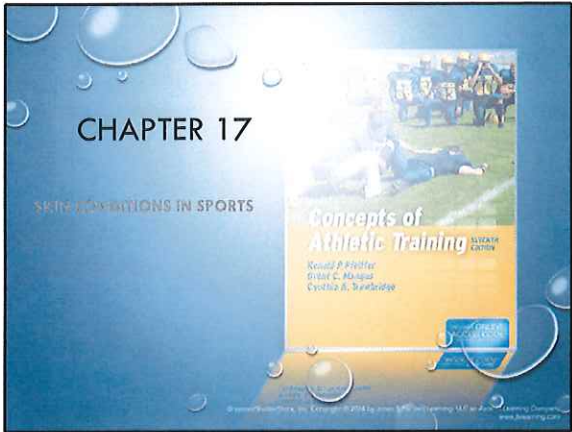
Social distancing means remaining out of congregate settings, avoiding mass gatherings, and maintaining distance (approximately 6 feet or 2 meters) from others when possible. (cdc.gov)

*****Manufacturing Engineering & Practicum in Manufacturing*****

Log on to www.learnatrol.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

*****Programming I*****

Log on to www.code.org and continue your lessons. Send me an email if you have any questions. jjones@mpisd.net



ANATOMY OF THE SKIN

THE SKIN IS THE LARGEST ORGAN OF THE BODY.

- TWO MAJOR LAYERS ARE THE DERMIS AND EPIDERMIS.
- SUBCUTANEOUS FAT HELPS INSULATE THE BODY FROM THE ENVIRONMENT.
- SKIN THICKNESS VARIES REGIONALLY; THICKEST SKIN IS ON THE SOLES OF THE FEET AND PALMS OF THE HANDS.

ANATOMY OF THE SKIN

SKIN'S FUNCTIONS INCLUDE:

- PROTECTION FROM ENVIRONMENT.
- MAINTENANCE OF BODY'S FLUID BALANCE.
- PROTECTION AGAINST DISEASE ORGANISMS.
- REGULATES BODY TEMPERATURE.
- HOUSING FOR SENSORY NERVES.
- PRODUCTION OF VITAMIN D.

SKIN DAMAGE

- EXTERNAL TRAUMA RESULTING IN WOUNDS
 - ABRASION, LACERATIONS, AVULSIONS, & INCISIONS.
- EXPOSURE TO ULTRAVIOLET (UV) LIGHT
 - SUNBURN
- TEMPERATURE EXTREMES – HOT OR COLD
 - BURNS OR FROSTNIP & FROSTBITE
- PATHOGENIC ORGANISMS – BACTERIA, VIRUSES, FUNGI
 - ATHLETE'S FOOT, JOCK ITCH, & STAPH
- ALLERGIES
 - DERMATITIS, HIVES, POISON IVY, & INSECT BITES.

WOUNDS

- THE MAJORITY OF WOUNDS IN SPORTS ARE ABRASIONS, LACERATIONS, OR INCISIONS.
 - TURF BURN IS A FORM OF ABRASION ASSOCIATED WITH ARTIFICIAL GRASS SURFACES.
- PRIMARY CONCERN WHEN RENDERING FIRST AID IS AVOIDANCE OF EXPOSURE TO WHOLE BLOOD THAT MAY TRANSMIT HIV OR HBV.
 - WEAR PERSONAL PROTECTIVE EQUIPMENT, WASH HANDS, AND APPLY STERILE DRESSINGS.

WOUND CARE

- PRIMARY GOALS OF WOUND CARE ARE:
 - CONTROL BLEEDING AND PREVENT INFECTION.
- TREATMENT OF WOUNDS IS A **TWO-PHASE PROCESS**.
 - INITIAL FIRST AID IS TO **CONTROL BLEEDING AND PREVENT FURTHER INJURY**.
 - PROTECTION OF AREA WITH DRESSING.
- INITIAL FIRST AID FOLLOWS NATIONAL SAFETY COUNCIL (NSC) PROTOCOL.

INITIAL FIRST AID

1. TAKE PRECAUTIONS AGAINST HIV AND HBV.
 - WEAR LATEX GLOVES AND DISPOSE OF WASTE IN STORAGE CONTAINER FOR BIOHAZARDOUS MATERIALS.
2. REMOVE CLOTHING AND/OR EQUIPMENT AROUND WOUND.
3. APPLY DIRECT PRESSURE TO CONTROL BLEEDING BY APPLYING SOME TYPE OF STERILE DRESSING.
4. IF DRESSING BECOMES BLOOD SOAKED, ADD MORE DRESSING ON TOP. DO NOT REMOVE BLOOD-SOAKED DRESSINGS.
5. IF BLEEDING IS SEVERE AND DOES NOT RESPOND TO DIRECT PRESSURE, USE ELEVATION IN COMBINATION WITH DIRECT PRESSURE.

INITIAL FIRST AID

6. INCREASED HEMORRHAGE CONTROL CAN BE ACHIEVED BY APPLICATION OF PRESSURE BANDAGE OVER EITHER BRACHIAL OR FEMORAL ARTERIES, DEPENDING ON WOUND LOCATION.
 - ONCE PRESSURE IS APPLIED TO THESE POINTS, IT SHOULD NOT BE REMOVED UNTIL ATHLETE IS UNDER PHYSICIAN'S CARE.
 - TOURNIQUET SHOULD BE APPLIED ONLY AS A LAST RESORT.
7. ALL MATERIALS USED TO TREAT THE WOUND SHOULD BE STORED FOR LATER DISPOSAL IN A PROPERLY IDENTIFIED **BIOHAZARDOUS** MATERIAL CONTAINER.

WOUND CARE

- AT THE TIME OF INITIAL INJURY, A DECISION MUST BE MADE REGARDING CONTINUED PARTICIPATION.
 - CONSIDER HEALTH AND SAFETY OF THE ATHLETE AS WELL AS RISK TO OTHERS.
- AFTER BLEEDING STOPPED, APPLY COMMERCIALY MADE DRESSING HELD IN PLACE BY ADHESIVE BANDAGE.
- LACERATIONS AND INCISIONS, PARTICULARLY THOSE TO THE SCALP AND FACE, MERIT SPECIAL ATTENTION BECAUSE OF POTENTIAL COSMETIC IMPACT.
 - GENERAL RULE: ANY WOUND THAT IS BELOW DERMAL LAYER AND MORE THAN 1 CM IN LENGTH SHOULD BE SEEN BY A PHYSICIAN, ESPECIALLY IF IT IS ON THE FACE.

GUIDELINES FOR CLEANING WOUNDS (NATIONAL SAFETY COUNCIL - 1993)

1. WASH HANDS AND WEAR LATEX GLOVES.
2. WASH WOUND WITH STERILE GAUZE PAD SATURATED WITH SOAP AND WATER. INSIDE WOUND TO OUTSIDE.
3. A 3% SOLUTION OF HYDROGEN PEROXIDE **MAY** BE USED TO CLEAR AWAY CLOTTED BLOOD.
 1. HOWEVER, RECENT RESEARCH HAS DEMONSTRATED CAUSTIC EFFECTS ON LARGE WOUNDS.
4. FLUSH WITH A LOT OF WATER AND DRY WITH STERILE GAUZE.
5. CLEAN AREA AROUND WOUND. USE RUBBING ALCOHOL TO CLEAN AROUND THE SKIN AROUND THE WOUND.

GUIDELINES FOR CLEANING WOUNDS (NATIONAL SAFETY COUNCIL - 1993)

6. DO **NOT** APPLY MERCUROCHROME, MERTHIOALATE, OR IODINE TO WOUNDS.
7. APPLY A STERILE, DRY DRESSING AND HOLD IN PLACE WITH SOME TYPE OF CLEAN BANDAGE.
8. SEVERE WOUNDS SHOULD BE TREATED FOR CONTROL OF BLEEDING AND REFERRED IMMEDIATELY FOR MEDICAL EVALUATION.

HIV/HBV AND THE ATHLETE

HIV AND HBV ARE BLOODBORNE INFECTIONS.

- ANYONE WHO IS SEXUALLY ACTIVE IS AT RISK.
- ATHLETES INJECTING STEROIDS AND SHARING NEEDLES ARE ALSO AT RISK.
- ANY TIME A PERSON INFECTED WITH HIV SUSTAINS A BLEEDING WOUND, THE POSSIBILITY OF TRANSMISSION EXISTS.
- THE PRUDENT COACH SHOULD FOLLOW BASIC PREVENTIVE GUIDELINES FOR HIV AND HBV TRANSMISSION, AS OUTLINED BY OSHA.

HIV/HBV AND THE ATHLETE

- COACHES ARE AT RISK BECAUSE THEY ARE OFTEN EXPOSED TO BLOODY TOWELS OR PLAYING SURFACES AND BLOOD-SOAKED BANDAGING MATERIALS.
- COACHES AND OFFICIALS SHOULD TAKE PRECAUTIONS AND REMOVE PLAYERS FROM PARTICIPATION WHEN EXCESSIVE BLEEDING IS EVIDENT.
 - PARTICIPANTS IN WRESTLING, TACKLE FOOTBALL, AND BOXING OFTEN SUSTAIN WOUNDS.
- EDUCATION OF ATHLETES, COACHES, AND PARENTS ABOUT HIV AND HBV IS ESSENTIAL.

OTHER SKIN CONDITIONS

• ULTRAVIOLET LIGHT (UV) – RELATED SKIN PROBLEMS

- OUTDOOR SPORTS PLAYED DURING SUMMER OFTEN EXPOSE LARGE AREAS OF SKIN TO HARMFUL RAYS OF THE SUN.
- SUMMER SPORTSWEAR TYPICALLY DOES NOT COVER ARMS AND LEGS.
 - IN SWIMMING AND DIVING, MAJOR PORTIONS OF SKIN ARE UNPROTECTED.
- EVIDENCE INDICATES EVEN A MINOR SUNBURN CAN BE HARMFUL AND CAN LEAD TO CARCINOMAS AND MELANOMAS.

UV – RELATED SKIN PROBLEMS

- ALTHOUGH BOTH UVA AND UVB ARE HARMFUL, UVB SEEMS MORE RELATED TO THE DEVELOPMENT OF SKIN PROBLEMS.
- INDIVIDUALS WITH LIGHTER SKIN, RED HAIR, AND FRECKLES ARE AT HIGHER RISK FOR SKIN DAMAGE.
- EXPOSURE TO SUN AT ANY TIME CAN RESULT IN SUNBURN, BUT MOST DANGEROUS TIMES ARE BETWEEN 10:00 A.M. AND 2:00 P.M.

UV – RELATED SKIN PROBLEMS

SUNBURN HAS TWO CLINICAL PHASES.

- IMMEDIATE ERYTHEMA PHASE INVOLVES REDDENING OF THE SKIN.
- DELAYED ERYTHEMA PHASE DEVELOPS WITHIN A FEW HOURS OF EXPOSURE, PEAKING AT 24 HOURS.
- MOST CASES INVOLVE MILD DISCOMFORT.
- SEVERE FORMS INCLUDE BLISTER FORMATION, CHILLS, AND GASTROINTESTINAL DISTRESS.

REVIEW QUESTIONS

1. WHAT ARE THE PRIMARY GOALS OF INITIAL WOUND CARE?
2. WHAT ARE THE STEPS OF INITIAL FIRST AID (THERE ARE 7)?
3. WHAT ARE THE GUIDELINES FOR WOUND CARE (THERE ARE 8)?