

SYLLABUS

READ THESE INSTRUCTIONS NOW!

- a.) Download & Save it
- b.) Read it
- c.) Add responses directly to it
- d.) When you are complete, submit from your account page.

Plagiarism Statement

I understand that I must use research conventions to cite and clearly mark other people's ideas and words within my paper. I understand that plagiarism is an act of intellectual dishonesty. I understand it is academically unethical and unacceptable to do any of the following acts of which **I will be immediately expelled without refund:**

- To submit an essay written in whole or in part by another student as if it were my own.
- To download an essay from the internet, then quote or paraphrase from it, in whole or in part, without acknowledging the original source.
- To restate a clever phrase *verbatim* from another writer without acknowledging the source.
- To paraphrase part of another writer's work without acknowledging the source.
- To reproduce the substance of another writer's argument without acknowledging the source.
- To take work originally done for one instructor's assignment and re-submit it to another teacher.
- To cheat on tests or quizzes through the use of crib sheets, hidden notes, viewing another student's paper, revealing the answers on my own paper to another student through verbal or textual communication, sign language, or other means of storing and communicating information--including electronic devices, recording devices, cellular telephones, headsets, and portable computers.
- To copy another student's work and submit the work as if it were the product of my own labor.

IMPORTANT: Use the texts with your downloads for support. If you have a tech issue with java script or activities, refer to your text and the website literature to help you respond to your questions. Contact "Student Services" online for any other tech issues.

PRIMARY CLASS LINK FOR INTEL

<https://www.intel.com/content/www/us/en/education/k12/the-journey-inside/explore-the-curriculum.html>

LESSON ONE: ASSIGNMENT: Use the link to explore and study Lessons 1 thru 7

<https://www.intel.com/content/www/us/en/education/k12/the-journey-inside/explore-the-curriculum/intro-to-computers.html>

Introduction to Computers >

This section provides short history of the computer, introduces the four major components of a computer, and compares computer "brains" with the human brain.

1. Read each lesson, interact with each animation, complete each activity and watch each video.
2. What made modern computers possible?
3. What are the four components essential to modern computing.

4. How do computers receive input?
5. How do computers store information?
6. How do computers process information?
7. How do computers deliver information?
8. What is a microprocessor?
9. What is meant by Artificial Intelligence?

ADD RESPONSE/S/ HERE

LESSON TWO: ASSIGNMENT: Use the link to explore and study Lessons 1 thru 10.

<https://www.intel.com/content/www/us/en/education/k12/the-journey-inside/explore-the-curriculum/circuits-and-switches.html>

Circuits and Switches >

This section teaches students about electricity, electric circuits, and the difference between mechanical and non-mechanical (transistors) switches.

- 1.) Read each lesson, interact with each animation, complete each activity and watch each video.
- 2.) What is electricity?
- 3.) What is meant by power source?
- 4.) What is a "current"?
- 5.) Explain "resistance".
- 6.) Explain how transistor switches turn a transistor off and on.

ADD RESPONSE/S/ HERE

LESSON THREE: ASSIGNMENT: Use the link to explore and study Lessons 1 thru 7

<https://www.intel.com/content/www/us/en/education/k12/the-journey-inside/explore-the-curriculum/digital-information.html>

Digital Information >

This section explores the differences between the decimal and binary number systems and how the information is represented and processed using binary code.

1. Read each lesson, interact with each animation, complete each activity and watch each video.
2. What is a binary code?
3. What is meant by "bit" and "pixel"?
4. How do you count AND add in a binary system?
5. What is meant by ASCII?

ADD RESPONSE/S/ HERE

LESSON FOUR: ASSIGNMENT: Use the link to explore and study Lessons 1 thru 6

<https://www.intel.com/content/www/us/en/education/k12/the-journey-inside/explore-the-curriculum/microprocessors.html>

Microprocessors >

This section investigates how microprocessors process information, demonstrates the size and the complexity of their circuitry, and explains how they are manufactured.

- 1.) Read each lesson, interact with each animation, complete each activity and watch each video.
- 2.) What did you learn from the robotic arm activity?
- 3.) Write a summary of knowledge gained from the video and Lesson 2: Fetch, Decode and Execute (a minimum of 4 sentences).
- 4.) What is a "micron"?
- 5.) How are chips made so small?
- 6.) Discuss the purpose of each component of a microprocessor.
- 7.) How are tiny circuits placed in the small chips?

ADD RESPONSE/S/ HERE

LESSON ONE: ASSIGNMENT: Use the link to explore and study Lessons 1 thru 8

<https://www.intel.com/content/www/us/en/education/k12/the-journey-inside/explore-the-curriculum/internet.html>

The Internet >

This section defines the Internet, then goes on to explain the World Wide Web, hypertext, URLs, packets, bandwidth, connection choices, search engines, and the need to critically evaluate the quality of the information found on the Web.

1. Read each lesson, interact with each animation, complete each activity and watch each video.
2. What is meant by "computer network"?
3. Explain how the World Wide Web has evolved?
4. What is a URL?
5. How does information travel on the web?
6. Explain the breaking of messages into packets and what you learned from the video and activity (4 sentences minimum.)
7. What is meant by "bandwidth"?
8. How are computer speeds measured?
9. How do you find reliable information on the internet?

ADD RESPONSE/S/ HERE

LESSON TWO: ASSIGNMENT: Use the link to explore and study Lessons 1 thru 5

<https://www.intel.com/content/www/us/en/education/k12/the-journey-inside/explore-the-curriculum/technology-and-society.html>

Technology and Society >

This section discusses the impact technological advances have on people's lives, with examples from the past and current day. Numerous side stories provide insights on ways the digital age is already affecting our lives. The final section talks about the accelerating rate of change and what we might expect to see in the near future.

1. Read each lesson, interact with each animation, complete each activity and watch each video.
2. Briefly describe the evolution of the telephone.
3. Explain Digital Imaging
4. What new technologies are used in sports?
5. What are the benefits of increased processing power

ADD RESPONSE/S/ HERE

LESSON THREE: Most Influential TECH People

ASSIGNMENT: Give highlights of 10 of the most influential people in technology. A minimum of 5 sentences each profile.

(Links are provided to help but you must conduct outside research)

<http://www.forbes.com/sites/tanyaprive/2013/01/07/the-30-most-influential-people-in-tech/2/>

<http://techbullets.blogspot.com/2012/04/10-most-influential-people-in-tech.html>

<http://venturevillage.eu/who-are-the-worlds-most-influential-tech-names>

ADD RESPONSE/S/ HERE

READ: Online Identity Theft: Information is Power - PDF

1. Read the Online Identity Theft PDF.
2. What is identity theft?
3. What information do thieves seek?

4. What problems are caused by identity theft?
5. Explain: phishing, pharming and text message scams.
6. How is P2P dangerous?
7. Explain the scam behind pre-approved credit cards.
8. How can you detect identity theft?
9. How do you identify a secure website?
10. How can you protect your social security number?

ADD RESPONSE/S/ HERE

READ: Internet Predators – Security – PDF

1. Read the Internet Predators Security PDF.

Discuss in an expository essay the dangers of sharing private information on the internet, what an internet predator is and how one operates, and how you will use the techniques given to avoid internet predators. INLCUDE: Research and share an actual case of a child being lured to meet an internet predator. Discuss the case and share what can be learned from the article.

(2 pages double spaced – size 12 fonts)

ADD RESPONSE/S/ HERE

Write an informational article

Teens are called “early adopters” because they are often the first age group to use new technologies or find new ways to use existing technologies. Write about the positives and negatives of social networking sites, messaging, and cell phone technologies used by teens. You might want to refer to a recent incident in your community or find a news article to which you can react. Discuss eager many middle school students are to join social networking sites such as Facebook, even going so far as to disregard the age rules to sign up.

What advice would you give to middle school students about using these sites?

ADD RESPONSE/S/ HERE

Your Online Image - PDF

1. Read each of the 6 scenarios.
2. Respond to each worksheet question on paper and then type your answers below for the worksheet, then reply to the other questions below.
3. How does it make you feel to know that parents, employers, school administrators, and even younger sisters and brothers, may be looking at what you say online?
4. Explain how you can be Cyber Smart about your online image.

ADD RESPONSE/S/ HERE

ASSIGNMENT: LIFE WITHOUT TV, RADIO, PHONES OR INTERNET – Suppose the US Government banned digital communication – TV, phones, radio, internet etc... indefinitely - Discuss the immediate effects on society as well as the lasting effects on people, families, commerce/businesses etc. How would we adjust and adapt – be detailed.

ADD RESPONSES BELOW

Managing Passwords – PDF

1. Read the “Managing Passwords” PDF
2. Take the quiz – How did you do?
3. What are the functions of passwords?
4. How do people crack and steal passwords?
5. How do you make a stronger password?
6. Create a password from the following phrase: “I hate oatmeal”
7. What can you do to be Cyber Smart about your passwords?

ADD RESPONSE/S/ HERE

Research code breakers. Discuss how a “hacker” was able to break a code, what damage was caused, and what actions were taken to prevent it from happening again. (2 pages double spaced – size 12 fonts)

ADD RESPONSE/S/ HERE

READ: Safeguarding Your Stuff, My Stuff, Our Stuff

1. Read and respond to the 3 crime file scenarios. Respond to each worksheet question on paper and then type your answers below for the worksheet, then reply to the other questions below.
2. What types of “attacks” are on the internet?
3. How do you defend yourself?

ADD RESPONSE/S/ HERE

Evaluating online Resources - PDF

1. Read over each evaluation tool.
2. What is the difference between information found on the Web and in a reference library?
3. Using the tools provided decide if each link below is a trusted site – answer yes or no.
4. <http://en.wikipedia.org/wiki/Poison>
5. <http://www.mayoclinic.com/health/performance-enhancing-drugs/SM00045>
6. <http://www.poison.org/>
7. <http://www.wisegeek.com/what-are-performance-enhancing-drugs.htm>
8. <http://www.answers.com/topic/poison>
9. http://en.wikipedia.org/wiki/Ergogenic_use_of_anabolic_steroids
10. Provide 5 reliable websites if you were researching The History of Politics in the United States. Discuss which criteria you used to support that the sites chosen are indeed reliable.

ADD RESPONSE/S/ HERE

YOUR INVENTION

ASSIGNMENT: Create your own cell phone. Your design must be far reaching in technology but plausible. What would your cell phone accomplish that is not already in existence? List at least ten new advances and include a front and back drawing of your cell phone (insert your image below). Explain your technology and why it is vital to our future to have this in our phones.

ADD RESPONSES AND IMAGES BELOW

READ: HISTORY AND EVOLUTION OF COMPUTERS - PDF

ASSIGNMENT: Place responses below to exercises 1 thru 15

READ: 10 Technologies that Could Change Our lives

THE FUTURE OF TECHNOLOGY

ASSIGNMENT: Now what about you? How do you think the digital world will affect your life? What types of jobs might you want to do that require the use of a computer or other digital device? Will you perhaps invent something that uses a microprocessor? Times of change are times of great opportunity. Predict what kind of opportunities might there be for you in the digital world.

(3 PAGES DOUBLE SPACED SIZE 12 FONT – Times new Roman)

ADD RESPONSE/S/ HERE

READ: Things to Come (an infographic with your downloads)

ASSIGNMENT: Using the infographic, beginning with 2019, list the name of the technology and state how this can benefit humanity. Then state any negative affects of having that technology. You must do ALL of them.

ADD RESPONSES BELOW