Integrated High School Mathematics I

THIS COURSE DOES NOT REQUIRE A FINAL EXAM

SYLLABUS

READ THESE INSTRUCTIONS NOW!

- 1.) YOUR ASSIGNMENTS ARE ON YOUR SYLLABUS SO...
 - A.) Download & Save it
 - B.) Read it ALL NOW!
 - C.) For textual readings, use the Downloads on your class page. Any additional links will be on your syllabus.
 - d.) Submit all work at once from your class page. Keep answers right on this document including images.

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.
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- 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.
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- 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.

Text: History of Mathematics, An Introduction, By David M. Burton

WEEKS ONE

Watch: https://www.youtube.com/watch?v=2WcbPcGrQZU

ASSIGNMENT: Discuss what you find interesting and intriguing in the documentary, History of Mathematics. List questions that you have that aren't answered in the video.

RESPONSE:

Read Chapter One

A. Watch: History of Mathematics and Applications Overview

https://www.youtube.com/watch?v=2No CMrxBe8

What did you learn in this video that you did not already know? Give a summary of each theory – concept discussed.

RESPONSE:

B. Watch: The Mathematics Map

https://www.youtube.com/watch?v=OmJ-4B-mS-Y

What did you learn in this video that you did not already know? What is the basic difference between pure mathematics and applied mathematics? Give a summary of ways in which mathematics is applied in the different professional fields?

RESPONSE:

C. Watch: Where do Math Symbols Come From?

https://www.youtube.com/watch?v=eVm063xmnow

What did you learn in this video that you did not already know? How did math symbols improve math?

RESPONSE:

D. Watch: How to Read Math

https://www.youtube.com/watch?v=Kp2bYWRQylk

What did you learn in this video that you did not already know?

RESPONSE:

After reading Chapter One....

1.1: Give a summary of how mathematics came to be

SUMMARY:

1.2 Problems: Give the answers only to the following problems.

#1

#4
#9
#12
1.3: What contribution did the early Babylonians make to mathematics?
RESPONSE:
1.3 Problems: Give the answers only to the following problems.
#1
#2
#4
#6
#12
#14
#15
WEEKS TWO
WEEKS TWO Read Chapter Two
Read Chapter Two
Read Chapter Two A. Watch: Egyptian Method of Multiplication – take notes
Read Chapter Two A. Watch: Egyptian Method of Multiplication – take notes https://www.youtube.com/watch?v=RyuuYJ4iGKU&list=PLBevhpjdlMgnOIMqZwyNmQMi_5hzl3oQK&index=1
Read Chapter Two A. Watch: Egyptian Method of Multiplication – take notes https://www.youtube.com/watch?v=RyuuYJ4iGKU&list=PLBevhpjdlMgnOIMqZwyNmQMi_5hzl3oQK&index=1 Share your notes: You can take a picture and place the image/s here.
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Read Chapter Two A. Watch: Egyptian Method of Multiplication – take notes https://www.youtube.com/watch?v=RyuuYJ4iGKU&list=PLBevhpjdlMgnOIMqZwyNmQMi_5hzl3oQK&index=1 Share your notes: You can take a picture and place the image/s here. NOTES: B. Watch: Ancient Egyptian Division and Fractions – take notes https://www.youtube.com/watch?v=Sij35nVm97U&list=PLBevhpjdlMgnOIMqZwyNmQMi_5hzl3oQK&index=2 Share your notes: You can take a picture and place the image/s here.
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Read Chapter Two A. Watch: Egyptian Method of Multiplication – take notes https://www.youtube.com/watch?v=RyuuYJ4iGKU&list=PLBevhpjdlMgnOIMqZwyNmQMi_5hzl3oQK&index=1 Share your notes: You can take a picture and place the image/s here. NOTES: B. Watch: Ancient Egyptian Division and Fractions – take notes https://www.youtube.com/watch?v=Sij35nVm97U&list=PLBevhpjdlMgnOIMqZwyNmQMi_5hzl3oQK&index=2 Share your notes: You can take a picture and place the image/s here. NOTES: C. Watch: The Pythagoreans and Whole Numbers https://www.youtube.com/watch?v=Cdcur9s3n-I&list=PLBevhpjdlMgnOIMqZwyNmQMi_5hzl3oQK&index=3

D. Watch: Plimpton 322 Overview
https://www.youtube.com/watch?v=9o1FlKc_3aM
SUMMARY OF VIDEO:
After reading Chapter Two
Give a summary of how the Egyptians contributed to mathematics.
SUMMARY:
Give a summary of how the Rosetta Stone.
SUMMARY:
2.3 Problems: Give the answers only to the following problems.
#1
#2
#8
#14
#22
2.4 Egyptian Geometry: What speculations were made about the Great Pyramids?
RESPONSE:
2.4 Problems: Give the answers only to the following problems.
#1 (a)
#4
#10 (a)
2.5 Problems: Give the answers only to the following problems.
#1
#5
#7
#13 (c)

2.6 Problems: Give the answers only to the following problems. #1 #2 #8 (a) Watch: Watch each of the five videos on the mystery of the pyramid's construction. https://www.youtube.com/watch?v=aAqZ44C0j5k https://www.youtube.com/watch?v=gQSdNZGUgIU https://www.youtube.com/watch?v=TJcp13hAO3U https://www.youtube.com/watch?v=rxFXsoqbfrk https://www.youtube.com/watch?v=rxFXsoqbfrk PROVIDE A SUMMARY of the complexity of the building of ancient pyramids and your ideas on how the pyramids could have been built. **SUMMARY: WEEKS THREE Read Chapter Three** A. Watch: Classical Greece. The Pythagorean Theorem – take notes https://www.youtube.com/watch?v=YLGKwbfTQ0I&list=PLBevhpjdlMgnOIMqZwyNmQMi 5hzl3oQK&index=4 Share your notes: You can take a picture and place the image/s here **NOTES:** B. Watch: Classical Greece. Irrational Numbers – take notes https://www.youtube.com/watch?v=rr0HQqTNzIE&list=PLBevhpjdlMgnOIMqZwyNmQMi 5hzl3oQK&index=5 Share your notes: You can take a picture and place the image/s here NOTES: C. Watch: Classical Greece. Approach to Arithmetic – take notes https://www.youtube.com/watch?v=obxLj_ilZ2k&list=PLBevhpjdlMgnOIMqZwyNmQMi_5hzl3oQK&index=6

Share your notes: You can take a picture and place the image/s here
NOTES:
3.2 Problems: Give the answers only to the following problems
#3
#4
#9
#11 (d)
3.3 Problems: Give the answers only to the following problems
#1
#5
#15
3.4 Problems: Give the answers only to the following problems
#1
#2
#7
3.5 Problems: Give the answers only to the following problems
#1
#7
WEEKS FOUR
Read Chapter 4 up to 4.4
A. Watch: Euclid Prime Numbers – take notes
https://www.youtube.com/watch?v=SNEVItgvJyg&list=PLBevhpjdlMgnOIMqZwyNmQMi_5hzl3oQK&index=7
Share your notes: You can take a picture and place the image/s here.
NOTES:
B. Watch: Euclid's Algorithm Part One — take notes
https://www.voutube.com/watch?v=zWylyCiSNkI&list=PLReyboidIMgnOIMg7wyNmOMi_5hzI3oOK&index=8

Share your notes: You can take a picture and place the image/s here.
NOTES:
C. Watch: Euclid's Algorithm Part Two – take notes
https://www.youtube.com/watch?v=JetqKycDi5k&list=PLBevhpjdlMgnOIMqZwyNmQMi_5hzl3oQK&index=9
Share your notes: You can take a picture and place the image/s here.
NOTES:
D. Watch: Euclid's Algorithm and Continued Fractions – take notes
https://www.youtube.com/watch?v=LiKbReHyl3U&list=PLBevhpjdlMgnOIMqZwyNmQMi_5hzl3oQK&index=10
Share your notes: You can take a picture and place the image/s here.
NOTES:
4.1 – Summarize of Euclid and his mathematical contribution
SUMMARY:
4.2 Problems: Give the answers only to the following problems.
#1
#2
#5
#9
#12
4.3 Problems: Give the answers only to the following problems.
#1
#7
#9
#13
#26
WEEK FIVE
Read Chapter 4.4 to end of Chapter 4

A. Watch: Archimedes Quadrature of the Parabola – take notes

https://www.youtube.com/watch?v=A1ZVrKa5B7E&list=PLBevhpjdlMgnOIMqZwyNmQMi_5hzl3oQK&index=11
Share your notes: You can take a picture and place the image/s here.
NOTES:
B. Watch: Archimedes Method of Exhaustion – take notes
https://www.youtube.com/watch?v=5CcUYlDp6dI&list=PLBevhpjdlMgnOIMqZwyNmQMi_5hzl3oQK&index=12
Share your notes: You can take a picture and place the image/s here.
NOTES:
C. Watch: Eratosthenes and the Circumference of Earth – take notes
https://www.youtube.com/watch?v=qNRMEtSqEQE&list=PLBevhpjdIMgnOIMqZwyNmQMi_5hzl3oQK&index=13
Share your notes: You can take a picture and place the image/s here.
NOTES:
4.4 Problems: Give the answers only to the following problems.
#1
#3
#8
4.5 Problems: Give the answers only to the following problems.
#3
#5
#7
Watch: History of Banned Mathematics
https://www.youtube.com/watch?v=VmWVXOIQbIM
PROVIDE A SUMMARY
SUMMARY:

WEEK SIX Watch: How Imaginary Numbers Were Made https://www.youtube.com/watch?v=cUzklzVXJwo PROVIDE A SUMMARY **SUMMARY:** Watch: Measuring the Speed of Light https://www.youtube.com/watch?v=pTn6Ewhb27k PROVIDE A SUMMARY **SUMMARY:** Watch: Math Riddle https://www.youtube.com/watch?v=iSNsgj1OCLA PROVIDE A SUMMARY of the difficulty in solving this riddle. **SUMMARY:** Watch – Kepler; The Infinite Repeating Number https://www.youtube.com/watch?v=48sCx-wBs34 PROVIDE A SUMMARY of the pattern. **SUMMARY:** Watch - Math's Fundamental Flaw

https://www.youtube.com/watch?v=48sCx-wBs34

PROVIDE A SUMMARY of the Flaw.

SUMMARY: