Algebra 1 Daily activities list

Yamhill Carlton High School

Ms. Nielsen
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Fall 2020
Class Syllabus

Jan. 25th

Learning Objective(s)

- I will practice what I have learned.

Activities

- Zoom:
    a. Questions and Answers for study guide
- Independent Work:
    a. Work on Study Guide

Upcoming Due Dates

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Jan. 22nd

Learning Objective(s)

- I can practice what I know by working on a study guide

Activities

- Zoom:
    a. Questions and Answers for 4.1.2
    b. Breakout Groups to work on study guide
    c. Class Closure Discussion
- Independent Work:
    a. Work on Study Guide

Upcoming Due Dates

- **Due 1/22 by 5pm: 4.1.2 RP #25, 26, 30**

Jan. 21st

Learning Objective(s)

- I can represent word problems with two or more equations. I will explore how to use the Equal Values Method to solve systems containing equations that are not in the y=mx+b form.

Activities

- Zoom:
    a. Questions and Answers for 4.1.1

    b. Breakout Groups 4.1.2 #20 - 23
    c. Class Closure Discussion
- Independent Work:
    a. Complete 4.1.2 RP #25, 26, 30

Upcoming Due Dates

- **Due 1/21 by 5pm: 4.1.1 RP #10, 12, 18**
- Due 1/22 by 5pm: 4.1.2 RP #25, 26, 30

Jan. 20th

Learning Objective(s)

- I can translate written information into algebraic symbols and then solve the equations that represent the relationships.

Activities

- Zoom:
    a. Questions and Answers for 3.3.3
    b. Breakout Groups 4.1.1 #1 - 3, 6a
    c. Class Closure Discussion
- Independent Work:
    a. Complete 4.1.1 RP #10, 12, 18

Upcoming Due Dates

- **Due 1/20 by 5pm: 3.3.3 RP #108, 110, 111**
- Due 1/21 by 5pm: 4.1.1 RP #10, 12, 18

Jan. 19th

Learning Objective(s)

- I can continue to develop my equation-solving skills and apply these practices to several types of equations.

Activities

- Zoom:
    a. Questions and Answers for 3.3.2b
    b. Breakout Groups 3.3.3 #105
    c. Class Closure Discussion
- Independent Work:
    a. Complete 3.3.3 RP #108, 110, 111

Upcoming Due Dates

- **Due 1/19 by 5pm: 3.3.2b RP #99, 101, 103**
- Due 1/20 by 5pm: 3.3.3 RP #108, 110, 111

Jan. 15th

Learning Objective(s)

- I can apply my equation-solving skills to rewrite equations with two or more variables.

Activities

- Zoom:
    a. Questions and Answers for 3.3.2a
    b. Breakout Groups 3.3.2b #90, 91
    c. Class Closure Discussion
    d. Quiz 5
- Independent Work:
    a. Complete 3.3.2b RP #99, 101, 103
    b. Complete Quiz 5

Upcoming Due Dates

- **Due 1/15 by 5pm: 3.3.2a RP #93, 94, 96**
- **Due 1/17 by 8pm: Quiz 5**
- Due 1/19 by 5pm: 3.3.2b RP #99, 101, 103

Jan. 14th

Learning Objective(s)

- I can apply my equation-solving skills to rewrite equations with two or more variables.

Activities

- Zoom:
    a. Questions and Answers for 3.3.1
    b. Breakout Groups 3.3.2a #87, 88, 89ab
    c. Class Closure Discussion
- Independent Work:
    a. Complete 3.3.2a RP #93, 94, 96

Upcoming Due Dates

- **Due 1/14 by 5pm: 3.3.1 RP #83, 84, 85**
- Due 1/15 by 5pm: 3.3.2a RP #93, 94, 96

Jan. 13th

Learning Objective(s)

- I can solve algebraic equations that have an absolute value in them.

Activities

- Zoom:
    a. Questions and Answers for 3.2.4
    b. Breakout Groups 3.3.1 #76 - 79
    c. Class Closure Discussion
- Independent Work:
    a. Complete 3.3.1 RP #83, 84, 85
    b. Watch 3.3.2 Intro Video

Upcoming Due Dates

- **Due 1/13 by 5pm: 3.2.4 RP #70, 72, 73, 75**

- Due 1/14 by 5pm: 3.3.1 RP #83, 84, 85

Jan. 12th

Learning Objective(s)

- I can use matrix multiplication to find the product of two linear equations.

Activities

- Zoom:
    a. Questions and Answers for 3.2.3
    b. Breakout Groups 3.2.4 #65 - 67, 68ab
    c. Class Closure Discussion
- Independent Work:
    a. Complete 3.2.4 #70, 72, 73, 75
    b. Watch 3.3.1 Intro Video

Upcoming Due Dates

- **Due 1/12 by 5pm: 3.2.3 #59, 60, 62**
- Due 1/13 by 5pm: 3.2.4 #70, 72, 73, 75

Jan. 11th

Learning Objective(s)

- I can use area rectangle sums to write the area as a product…and the other way around!

Activities

- Zoom:
    a. Questions and Answers for 3.2.2
    b. Breakout Groups 3.2.3 #54, 55, 56
    c. Class Closure Discussion
- Independent Work:
    a. Complete 3.2.3 #59, 60, 62
    b. Watch 3.2.4 Intro Video

Upcoming Due Dates

- Due 1/12 by 5pm: 3.2.3 #59, 60, 62

Jan. 8th

Learning Objective(s)

- I will show what I have learned by completing a test

Activities

- Zoom:
    a. Individual Breakout Rooms for Test
- Independent Work:
    a. Complete Test

Upcoming Due Dates

- **Due 1/8 by 5pm: Test 2**

Jan. 7th

Learning Objective(s)

- I can review what I have learned to review for my test tomorrow

Activities

- Zoom:
    a. Questions and Answers 3.2.2
    b. Review for test
    c. Class Closure Discussion
- Independent Work:
    a. Study for Test

Upcoming Due Dates

- **Due 1/7 by 5pm: 3.2.2 RP #48, 49, 53**
- Due 1/8 by 5pm: Test 2

Jan. 6th

Learning Objective(s)

- I can use algebra tiles to model the equation ↔ situation connection.

Activities

- Zoom:
    a. Questions and Answers 3.2.1 Day 2
    b. Breakout Groups 3.2.2 #45, 46, 47
    c. Class Closure Discussion
- Independent Work:
    a. Complete 3.2.2 RP #48, 49, 53

Upcoming Due Dates

- **Due 1/6 by 5pm: 3.2.1 Day 2 RP #36, 38**
- Due 1/7 by 5pm: 3.2.2 RP #48, 49, 53

Jan. 5th

Learning Objective(s)

- I can use algebra tiles to model the equation ↔ situation connection.

Activities

- Zoom:
    a. Questions and Answers 3.2.1 Day 1
    b. Breakout Groups 3.2.1 Day 2 #28, 29, 30
    c. Class Closure Discussion
- Independent Work:
    a. Complete 3.2.1 Day 2 RP #36, 38

    b. Watch 3.2.2 Intro Video

Upcoming Due Dates

- **Due 1/5 by 5pm: 3.2.1 Day 1 RP #33, 34**
- Due 1/6 by 5pm: 3.2.1 Day 2 RP #36, 38

Jan. 4th

Learning Objective(s)

- I can use algebra tiles to model the equation ↔ situation connection.

Activities

- Zoom:
    a. Questions and Answers
    b. Breakout Groups 3.2.1 Day 1 #25, 26, 27
    c. Class Closure Discussion
- Independent Work:
    a. Complete 3.2.1 Day 1 RP #33, 34
    b. Watch 3.2.1 Day 2 Intro Video

Upcoming Due Dates

- Due 1/5 by 5pm: 3.2.1 Day 1 RP #33, 34

Dec. 18th

Learning Objective(s)

- I will show what I have learned on a quiz

Activities

- Zoom:
    a. Individual Breakout rooms for Quiz 4 (mini test)
- Independent Work:
    a. Complete Quiz 4 (mini test)

Upcoming Due Dates

- **Due 12/18 by 5pm: Exponent Rules Worksheet (just first page)**
- **Due 12/18 by 5pm: Quiz 4 (mini test)**

Dec. 17th

Learning Objective(s)

- I will practice using exponent rules

Activities

- Zoom:
    a. Questions & Answers for 3.1.2
    b. Breakout Groups to work on exponent rules worksheet
    c. Class Closure Discussion
- Independent Work:

    a. Complete exponent rules worksheet

Upcoming Due Dates

- **Due 12/17 by 5pm: Ch 3.1.2 RP #19, 21, 24**
- Due 12/18 by 5pm: Exponent Rules Worksheet (just first page)

Dec. 16th

Learning Objective(s)

- Students will formalize the laws of exponents and will use them to deduce the meaning of x^0 and x^1.

Activities

- Zoom:
    a. Questions & Answers for 3.1.1
    b. Breakout Groups 3.1.2 #13 - 16
    c. Class Closure Discussion
- Independent Work:
    a. Complete 3.1.2 RP #19, 21, 24
    b. Watch 3.2.1a Intro Video

Upcoming Due Dates

- **Due 12/16 by 5pm: Ch 3.1.1 RP #6, 8, 10**
- Due 12/17 by 5pm: Ch 3.1.2 RP #19, 21, 24

Dec. 15th

Learning Objective(s)

- I can develop strategies to simplify algebraic expressions with exponents.

Activities

- Zoom:
    a. Questions & Answers for Ch 2
    b. Breakout Groups 3.1.1 #1 - 3
    c. Class Closure Discussion
- Independent Work:
    a. Complete 3.1.1 RP #6, 8, 10
    b. Watch 3.1.2 Intro Video

Upcoming Due Dates

- Due 12/16 by 5pm: Ch 3.1.1 RP #6, 8, 10

Dec. 14th

Learning Objective(s)

- I can practice what I have learned through a Desmos activity.

Activities

- Zoom:

    a. Questions & Answers for 2.3.2
    b. Desmos Review Activity
    c. Class Closure Discussion
- Independent Work:
    a. Missing Assignments
    b. Watch 3.1.1 Intro Video

Upcoming Due Dates

- **Due 12/14 by 5pm: Ch 2.3.2 RP #92**

Dec. 11th

Learning Objective(s)

- I can develop an algebraic method for finding the equation of a line when you only know two points on a line.

Activities

- Zoom:
    a. Questions & Answers for 2.3.1
    b. Breakout Groups 2.3.2 #87, 88, 89
    c. Class Closure Discussion
    d. Quiz 3
- Independent Work:
    a. Complete 2.3.2 RP #92
    b. Complete Quiz 3

Upcoming Due Dates

- **Due 12/11 by 5pm: Ch 2.3.1 RP #85, 86**
- **Due 12/13 by 8pm: Quiz 3**
- Due 12/14 by 5pm: Ch 2.3.2 RP #92

Dec. 10th

Learning Objective(s)

- I can develop an algebraic method for finding the equation of a line when only its slope and a point of a line is given.

Activities

- Zoom:
    a. Questions & Answers for 2.2.3
    b. Breakout Groups 2.3.1 #76 - 79, 81
    c. Class Closure Discussion
- Independent Work:
    a. Complete 2.3.1 RP #85, 86
    b. Watch 2.3.2 Intro Video

Upcoming Due Dates

- **Due 12/10 by 5pm: Ch 2.2.3 RP #71, 72, 74**
- Due 12/11 by 5pm: Ch 2.3.1 RP #85, 86

Dec. 9th

Learning Objective(s)

- I can construct a line based on known knowledge about a real life situation and use that line to predict future events.

Activities

- Zoom:
    a. Questions & Answers for 2.2,2
    b. Breakout Groups 2.2.3 #68
    c. Class Closure Discussion
- Independent Work:
    a. Complete 2.2.3 RP #71, 72, 74
    b. Watch 2.2.4 Intro Video

Upcoming Due Dates

- **Due 12/9 by 5pm: Ch 2.2.2 RP #59, 60, 64**
- Due 12/10 by 5pm: Ch 2.2.3 RP #71, 72, 74

Dec. 8th

Learning Objective(s)

- I can define the term “rate of change” and apply its meaning to various situations.

Activities

- Zoom:
    a. Questions & Answers for 2.1.4
    b. Breakout Groups 2.2.2 #53, 54ab, 55a, 58
    c. Class Closure Discussion
- Independent Work:
    a. Complete 2.2.2 RP #59, 60, 64
    b. Watch 2.2.3 Intro Video

Upcoming Due Dates

- **Due 12/8 by 5pm: Ch 2.1.4 RP #42ab, 44, 45**
- Due 12/9 by 5pm: Ch 2.2.2 RP #59, 60, 64

Dec. 7th

Learning Objective(s)

- I can use the slope of a line and the y-intercept to find the equation of a line in y=mx+b form.

Activities

- Zoom:
    a. Questions & Answers for 2.1.3
    b. Breakout Groups 2.1.4 #37 - 40

    c. Class Closure Discussion
- Independent Work:
    a. Complete 2.1.4 RP #42ab, 44, 45
    b. Watch 2.2.2 Intro Video

Upcoming Due Dates

- Due 12/8 by 5pm: Ch 2.1.4 RP #42ab, 44, 45

Dec. 4th

Learning Objective(s)

- I can use my knowledge to complete a test

Activities

- Zoom:
    a. Individual breakout rooms to take test
- Independent Work:
    a. Complete Test 1
    b. Watch 2.1.4 Intro Video

Upcoming Due Dates

- **Due 12/4 by 5pm: Ch 2.1.3 RP #31, 32, 33**
- **Due 12/4 by 5pm: Test 1**

Dec. 3rd

Learning Objective(s)

- I can use the definition of Δx and Δy to describe the slope of a graphed line.

Activities

- Zoom:
    a. Questions & Answers for 2.1.2
    b. Breakout Groups 2.1.3 #25 - 27, 30
    c. Class Closure Discussion
    d. Q&A for upcoming test
- Independent Work:
    a. Complete 2.1.3 RP #31, 32, 33
    b. Study for Test

Upcoming Due Dates

- **Due 12/3 by 5pm: Ch 2.1.2 RP #20, 24**
- Due 12/4 by 5pm: Ch 2.1.3 RP #31, 32, 33
- Due 12/4 by 5pm: Test 1

Dec. 2nd

Learning Objective(s)

- I can use the prediction skills for growth from section 2.1.1 to determine an accurate value of growth from a graph (slope of a line).

Activities

- Zoom:
    a. Questions & Answers for 2.1.1
    b. Breakout Groups 2.1.2 #13 - 16
    c. Class Closure Discussion
- Independent Work:
    a. Complete 2.1.2 RP #20, 24
    b. Watch 2.1.3 Intro Video

Upcoming Due Dates

- **Due 12/2 by 5pm: Ch 2.1.1 RP #6, 8, 9**
- Due 12/3 by 5pm: Ch 2.1.2 RP #20, 24

Dec. 1st

Learning Objective(s)

- I can identify and predict growth in linear relationships.

Activities

- Zoom:
    a. Questions & Answers for 1.2.5
    b. Breakout Groups 2.1.1 #1, 3, 4, 5
    c. Class Closure Discussion
- Independent Work:
    a. Complete 2.1.1 RP #6, 8, 9
    b. Watch 2.1.2 Intro Video

Upcoming Due Dates

- **Due 12/1 by 5pm: Ch 1.2.5 RP #78, 80**
- Due 12/2 by 5pm: Ch 2.1.1 RP #6, 8, 9

Nov. 30th

Learning Objective(s)

- I can describe the inputs and outputs of functions. I can identify the domain and range of a graphed function.

Activities

- Zoom:
    a. Questions & Answers for 1.2.4
    b. Breakout Groups 1.2.5 #71 - 74
    c. Class Closure Discussion
- Independent Work:
    a. Complete 1.2.5 RP #78, 80
    b. Watch 2.1.1 Intro Video

Upcoming Due Dates

- **Due 11/30 by 5pm: Ch 1.2.4 RP #67, 69, 70**
- Due 12/1 by 5pm: Ch 1.2.5 RP #78, 80

Nov. 20th

Learning Objective(s)

- I can identify the qualities needed in a relationship between x-y values to make a function.

Activities

- Zoom:
    a. Questions & Answers for 1.2.3
    b. Breakout Groups 1.2.4 #62, 63, 64, 65
    c. Class Closure Discussion
    d. Quiz 2
- Independent Work:
    a. Complete 1.2.4 RP #67, 69, 70
    b. Complete Quiz 2
    c. Watch 1.2.5 Intro Video

Upcoming Due Dates

- **Due 11/20 by 5pm: Ch 1.2.3 RP #57, 61**
- **Due 11/22 by 8pm: Quiz 2**
- Due 11/30 by 5pm: Ch 1.2.4 RP#67, 69, 70

Nov. 19th

Learning Objective(s)

- I can look more closely at how equations that relate two variables help establish a function between the variables.

Activities

- Zoom:
    a. Questions & Answers for 1.2.2b
    b. Breakout Groups 1.2.3 #53, 55, 56
    c. Class Closure Discussion
- Independent Work:
    a. Complete 1.2.3 RP #57, 61
    b. Watch 1.2.4 Intro Video

Upcoming Due Dates

- **Due 11/19 by 5pm: Ch 1.2.2b RP #47, 48, 51**
- Due 11/20 by 5pm: Ch 1.2.3 RP #57, 61

Nov. 18th

Learning Objective(s)

- I can graph and describe absolute value functions and begin identifying the differences (and limitations on domain and range) for different shaped functions.

Activities

- Zoom:
    a. Questions & Answers for 1.2.2a
    b. Breakout Groups 1.2.2b #45, 46
    c. Class Closure Discussion
- Independent Work:
    a. Complete 1.2.2b RP #47, 48, 51
    b. Watch 1.2.3 Intro Video

Upcoming Due Dates

- **Due 11/18 by 5pm: Ch 1.2.2a RP #49, 50**
- Due 11/19 by 5pm: Ch 1.2.2b RP #47, 48, 51

Nov. 17th

Learning Objective(s)

- I can graph and describe cube root functions and begin identifying the difference between functions.

Activities

- Zoom:
    a. Questions & Answers for 1.2.1
    b. Breakout Groups 1.2.2a #43, 44
    c. Class Closure Discussion
- Independent Work:
    a. Complete 1.2.2a RP #49, 50

Upcoming Due Dates

- **Due 11/17 by 5pm: Ch 1.2.1 RP #36, 37, 41bc**
- Due 11/18 by 5pm: Ch 1.2.2a RP #49, 50

Nov. 16th

Learning Objective(s)

- I can explain how to describe the graph of a function completely. I can graph an exponential growth/decay and square root functions.

Activities

- Zoom:
    a. Questions & Answers for 1.1.3
    b. Breakout Groups 1.2.1 #30 - Desmos
    c. Class Closure Discussion
- Independent Work:
    a. Complete 1.2.1 RP #36, 37, 41bc
    b. Watch 1.2.2 Intro Video

Upcoming Due Dates

- **Due 11/16 by 5pm: Ch 1.1.3 RP #25, 26, 28**
- Due 11/17 by 5pm: Ch 1.2.1 RP #36, 37, 41bc

Nov. 13th

Learning Objective(s)

- I can show that the graph of a quadratic function has the shape of a parabola and describe the graphs important features.

Activities

- Zoom:
    a. Questions & Answers for 1.1.2
    b. Breakout Groups 1.1.3 #23 - Desmos
    c. Class Closure Discussion
    d. Quiz 1
- Independent Work:
    a. Complete 1.1.3 RP #25, 26, 28
    b. Complete Quiz 1
    c. Watch 1.2.1 Intro Video

Upcoming Due Dates

- **Due 11/13 by 5pm: Ch 1.1.2 RP #16, 21**
- **Due 11/15 by 8pm: Quiz 1**
- Due 11/16 by 5pm: Ch 1.1.3 RP #25, 26, 28

Nov. 12th

Learning Objective(s)

- I can collect and analyze data with tables and graphs and begin to look at patterns.

Activities

- Zoom:
    a. Questions & Answers for 1.1.1
    b. Breakout Groups 1.1.2 #9ab, 11ab - Desmos Activity
    c. Class Closure Discussion
- Independent Work:
    a. Complete 1.1.2 RP #16, 21
    b. Watch 1.1.3 Intro Video

Upcoming Due Dates

- **Due 11/12 by 5pm: Ch 1.1.1 RP #6, 7, 8**
- Due 11/13 by 5pm: Ch 1.1.2 RP#16, 21

Nov. 10th

Learning Objective(s)

- I will be reminded of the multiple representations of linear functions while considering the output of various composite relations.

Activities

- Zoom:
    a. Intro to Class
    b. Breakout Groups 1.1.1 #2b, 4
    c. Class Closure Discussion
- Independent Work:
    a. Complete 1.1.1 RP #6, 7, 8
    b. Watch 1.1.2 Intro Video

Upcoming Due Dates

- **Due 11/10 by 5pm: 10 problems on Solving for X worksheet**
- Due 11/12 by 5pm: Ch 1.1.1 RP #6, 7, 8

Nov. 9th

Learning Objective(s)

- I will practice solving equations

Activities

- Zoom:
    a. Intro to Class
- Independent Work:
    a. Complete 10 problems on Solving for X worksheet
    b. Watch 1.1.1 Intro Video

Upcoming Due Dates

- Due 11/10 by 5pm: 10 problems on Solving for X worksheet