**CH2: Linear Functions "Flipped" Learning Outline**                Name_____ HR_____

**Lesson 1: Solving Linear Equations and Inequalities**

➣🎯 **Learning Target**: I can…
- ✓ Solve linear equations using a variety of methods
- ✓ Solve linear inequalities

_____ Watch Videos (online) or Read (p90-93) for Examples 1-5

_____ Take notes…*Remember you can use these notes while taking concept checks!* ☺

_____ Complete the "Check It Out" Questions (answers are available in the Solution Keys)

_____ Practice: p94 #23-39(o), 44-48(e), 58, 60, 65 (use the Solution Keys to make you are on target)

_____ Optional Practice: IXL, Alg2-B1, B2, C5

_____ Optional Practice: KutaSoftware, Algebra2, Equations and Inequalities, Multi-Step Equations and/or Multi-Step Inequalities

**Lesson 2: Proportional Reasoning**

➣🎯 **Learning Target**: I can…
- ✓ Apply proportional relationships to rates, similarity, and scale

_____ Watch Videos (online) or Read (p97-99) for Examples 1-5

_____ Take notes…*Remember you can use these notes while taking concept checks!* ☺

_____ Complete the "Check It Out" Questions

_____ Practice: p101 #15-29(o), 53, 68, 71

_____ Optional Practice: Think and Discuss p100 (possible answers are available in the Solution Keys)

**Lesson 3: Graphing Linear Functions**

➣🎯 **Learning Target**: I can…
- ✓ Determine whether a function is linear
- ✓ Graph a linear function given two points, a table, and equation, or a point and a slope

_____ Watch Videos (online) or Read (p105-108) for Examples 1-6

_____ Take notes…*Remember you can use these notes while taking concept checks!* ☺

_____ Complete the "Check It Out" Questions

_____ Practice: p110 #22-25, 29-37(o), 38, 47-50, 73-79(o)

_____ Optional Practice: IXL, Alg2-D2,

_____ Optional Practice: IXL, Alg1-S1, S6, S11, S13, S14, S18

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🛑 **STOP**    **It's time to see what you have learned and if you are on "target!"**

➣🎯 **Concept Check for 2.1-2.3 must be completed by Monday, September 30th.**

➣🎯 **You may NOT move on to Lesson 4 until you have successfully passed this check**

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**Lesson 4: Writing Linear Functions**

➣🎯 **Learning Target**: I can…
- ✓ Use slope-intercept form to write linear functions
- ✓ Write linear functions to solve problems

_____ Watch Videos (online) or Read (p115-119) for Examples 1-5

_____ Take notes…*Remember you can use these notes while taking concept checks!* ☺

_____ Complete the "Check It Out" Questions

_____ Practice: p121 #12-18, 20, 21-27(o), 52

_____ Optional Practice: IXL, Alg1-S3, S6, S16-19

**Lesson 5: Linear Inequalities in Two Variables**

➤◎ **Learning Target**: I can…
- ✓ Graph linear inequalities on the coordinate plane
- ✓ Solve problems using linear inequalities

_____ Watch Videos (online) or Read (p124-127) for Examples 1-4

_____ Take notes…_Remember you can use these notes while taking concept checks!_ ☺

_____ Complete the "Check It Out" Questions

_____ Practice: p128 #12-20, 22, 23, 34, 50

_____ Optional Practice: Think and Discuss on p127 (possible answers are available in the Solution Keys)

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**STOP** — It's time to see what you have learned and if you are on "target!"

➤◎ Concept Check for 2.4-2.5 must be completed by Thursday, October 3rd.

➤◎ You may NOT move on to Lesson 6 until you have successfully passed this check

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**REVIEW:** RTGO p133 #1-31

**\*QUIZ: CH2(2.1-2.5): This will take place on Monday, October 7th**

**Lesson 6: Transforming Linear Functions (plan on 2-3 days)**

➤◎ **Learning Target**: I can…
- ✓ Transform linear functions
- ✓ Solve problems involving linear transformations

_____ Watch Videos (online) or Read (p134-137) for Examples 1-4

_____ Take notes…_Remember you can use these notes while taking concept checks!_ ☺

_____ Complete the "Check It Out" Questions

_____ Practice: EX1 p138 #1, 8, 9, 16, 31-34

_____ Practice: EX2-3 p138 #2-6, 10-14

_____ Practice: EX1-4 p138 #7, 15, 17, 21, 24-27

_____ Optional Practice: http://teacherweb.com/TX/CedarRidgeHighSchool/Pigeon/AR5.pdf

_____ Optional Practice: http://www.jacknilan.com/newalg2/chapter1/transformingmenu.html

_____ *Optional Practice: http://goo.gl/QfpPKW

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**STOP** — It's time to see what you have learned and if you are on "target!"

➤◎ Concept Check for 2.6 must be completed by Thursday, October 10th.

➤◎ You may NOT move on to Lesson 6 until you have successfully passed this check

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**Lesson 7: Curve Fitting with Linear Models (NEED GRAPHING CALCULATOR)**

➤◎ **Learning Target**: I can…
- ✓ Fit scatter plot data using linear models with and without technology
- ✓ Use linear models to make predictions

_____ Watch Videos (online) or Read (p142-145) for Examples 1-3

_____ Optional Video: http://www.youtube.com/watch?v=O59R2bBQaqg

_____ Take notes…_Remember you can use these notes while taking concept checks!_ ☺

_____ Graphing Calculator Information: http://goo.gl/myiXGG

_____ Complete the "Check It Out" Questions

_____ Practice: p146 #2-4, 7

_____ Practice: Think and Discuss p145 #1-3 (possible answers are available in the Solution Keys)

| | It's time to see what you have learned and if you are on "target!" |
|---|---|
| **STOP** | ▸⊚ **Concept Check for 2.7 must be completed by Tuesday, October 15th.** |
| | ▸⊚ **You may NOT move on to Lesson 6 until you have successfully passed this check** |

**Lesson 8: Solving Absolute-Value Equations and Inequalities (plan on 1-2 days)**

▸⊚ **Learning Target**: I can…

   ✓ Solve compound inequalities

   ✓ Write and solve absolute-value equations and inequalities

_____ Watch Videos (online) or Read (p150-153) for Examples 1-4

   _____ Take notes…*Remember you can use these notes while taking concept checks!* ☺

   _____ Complete the "Check It Out" Questions

_____ Practice: EX1-2 p154 #14-19, 37-41(o), 60, 71

_____ Practice: EX3-4 p154 #21-35(o), 36, 45, 70

_____ Optional Practice: IXL, Alg2-B3, B4, C7, C8

_____ Optional Practice: http://goo.gl/ZkiebX

**Lesson 9: Absolute-Value Functions (plan on 1-2 days)**

▸⊚ **Learning Target**: I can…

   ✓ Graph and transform absolute-value functions

_____ Watch Videos (online) or Read (p150-153) for Examples 1-4

   _____ Take notes…*Remember you can use these notes while taking concept checks!* ☺

   _____ Complete the "Check It Out" Questions

_____ Practice: EX1-2 p161 #9-14, 20, 55, 56

_____ Practice: EX3 p161 #15-18, 27-29

_____ Practice: Think and Discuss p160 #1-3

_____ Optional Practice: http://www.youtube.com/watch?v=6B4E0Oe5RhY

_____ Optional Practice: http://goo.gl/XaHddi

_____ Optional Practice: http://goo.gl/Ta6HPT

| | It's time to see what you have learned and if you are on "target!" |
|---|---|
| **STOP** | ▸⊚ **Concept Check for 2.8-2.9 must be completed by Wednesday, October 23rd.** |
| | ▸⊚ **You may NOT move on to Lesson 6 until you have successfully passed this check** |

**REVIEW:** Worksheet (plan on 2 days)

**\*TEST: CH2(2.1-2.9): This will take place on Friday, October 25th**

*I have extra time so now what…?*

| CH2 Study Guide Review (2.1-2.9) p166-169 #1-57(o) | Draw a line through 2 points on a coordinate plane and find the equation of the line. Draw a 3rd point off the line and find the equations of the lines parallel and perpendicular to the original line through the point. (2.4) | Technology Lab (2.3) Explore Graphs and Windows p113-114 Activities and Try This #1-9 |
|---|---|---|
| (2.5) Write a linear equation in slope-intercept form. Then write and graph the four different inequalities for which the equation is a boundary line. | Technology Lab (2.9) Solving Absolute-Value Functions p157 Activity and Try This #1-3 | (2.6) Pick a parent function and describe a translation, a reflection, and a stretch or compression. Finally, write a rule for each transformation. |

| Mon | Tue | Wed | Thu | Fri |
|---|---|---|---|---|
| 23 | 24 | 25 | 26 | 27 |
| CH1 Review (1.1-1.5) | CH1 Test | 2.1 | 2.2 | 2.3 |
|  |  |  | SWAT (RB) |  |

| Mon | Tue | Wed | Thu | Fri |
|---|---|---|---|---|
| 30 | Oct 1 | 2 | 3 | 4 |
| 2.4 | Respect Retreat | 2.5 | CC(2.4-2.5) | Anti-Bullying Program |
| CC(2.1-2.3) |  |  | RTGO (2.1-2.5) |  |
| 7 | 8 | 9 | 10 | 11 |
| Quiz (2.1-2.5) | 2.6 | 2.6 | 2.6 | 2.7 |
|  |  |  | CC(2.6) |  |
|  |  |  | SWAT (I/E) |  |
| 14 | 15 | 16 | 17 | 18 |
| 2.8 | 2.8 | NO SCHOOL |  |  |
| Columbus Day | CC (2.7) |  |  |  |
| 21 | 22 | 23 | 24 | 25 |
| 2.9 | 2.9 | CC(2.8-2.9) | CH2 Review | CH2 Test (2.1-2.9) |
|  |  | CH2 Review | SWAT (I/E) |  |