

Columbus County Schools
Common Core State Standards Curriculum Alignment

Subject: Math	Grade Level: 8 th	Grading Period: 1 st Nine Weeks
CCSS: 8.EE.5, 8.EE.6, 8.EE.7, 8.EE.8, 8.F.1, 8.F.2, 8.F.3, 8.F.4, 8.F.5	Time Frame: Week 10 – Week 18	Domain (Unit): Expressions and Equations (Unit 2) and Functions (Unit 3)
Essential Question (Unit 2): How can you communicate mathematical ideas effectively?		
Essential Question (Unit 3): How can you find and use patterns to model real-world situations?		

<u>Chapters:</u>	<u>Mathematical Practices:</u>	<u>Academic Vocabulary:</u>	<u>Assessment(s):</u>	<u>Additional Resources:</u>
Chapter 3: Equations in Two Variables Lessons: 1 - 8 Essential Question: Why are graphs helpful?	1,2, 3,4,5,7	Constant of Proportionality, Constant of Variation, Constant Rate of Change, Direct Variation, Linear Relationships, Point-Slope Form, Rise, Run, Slope, Slope-Intercept Form, Standard Form, Substitution, Systems of Equations, X-Intercept, Y-Intercept	- BellRingers - Observations - Class Discussions - Quizzes - Homework - Guided Practice - Independent Practice - Chapter Tests	-Big Ideas -Websites -8 th Grade Notebook
Chapter 4: Functions Lessons: 1 - 9 Essential Question: How can we model relationships between quantities?	1,2, 3,4,5,7	Continuous Data, Dependent Variable, Discrete Data, Domain, Function, Function Table, Independent Variable, Linear Equation, Linear Function, Nonlinear Function, Quadratic Function, Qualitative Graphs, Range, Relation	- BellRingers - Observations - Class Discussions - Quizzes - Homework - Guided Practice - Independent Practice - Chapter Tests	-Big Ideas -Websites -8 th Grade Notebook

<u>Day 1</u>	<u>Day 2</u>	<u>Day 3</u>	<u>Day 4</u>	<u>Day 5</u>
<u>Chapter:</u> 3	<u>Chapter:</u> 3	<u>Chapter:</u> 3	<u>Chapter:</u> 3	<u>Chapter:</u> 3
<u>Lesson:</u> 1	<u>Lesson:</u> Inquiry Lab	<u>Lesson:</u> 2	<u>Lesson:</u> 3	<u>Lesson:</u> 4
<u>Standards:</u> 8.EE.5	<u>Standards:</u> 8.EE.5	<u>Standards:</u> 8.EE.5	<u>Standards:</u> 8.EE.5, 8.EE.6, 8.F.2, 8.F.4	<u>Standards:</u> 8.EE.6, 8.F.3, 8.F.4
<u>Mathematical Practices:</u> 1, 3, 4, 5	<u>Mathematical Practices:</u> 1, 3	<u>Mathematical Practices:</u> 1, 3, 4	<u>Mathematical Practices:</u> 1, 3, 4	<u>Mathematical Practices:</u> 1, 3, 4
<u>Academic Vocabulary:</u> Linear Relationship, Constant Rate of Change	<u>Academic Vocabulary:</u> None	<u>Academic Vocabulary:</u> Slope, Rise, Run	<u>Academic Vocabulary:</u> Direct Variation, Constant of Variation, Constant of Proportionality	<u>Academic Vocabulary:</u> Y-Intercept, Slope- Intercept Form
<u>Objective:</u> Identify proportional and nonproportional linear relationships by finding a constant rate of change.	<u>Objective:</u> Use a graphing calculator to find rates of change.	<u>Objective:</u> Find the slope of a line.	<u>Objective:</u> Use direct variation to solve problems.	<u>Objective:</u> Graph linear equations using the slope and y-intercept.
<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board
<u>Guided Practice:</u> Page 174	<u>Guided Practice:</u> Page 179	<u>Guided Practice:</u> Page 184	<u>Guided Practice:</u> Page 194	<u>Guided Practice:</u> Page 202
<u>Independent Practice:</u> Pages 175 - 176	<u>Independent Practice:</u> Page 180	<u>Independent Practice:</u> Pages 185 - 186	<u>Independent Practice:</u> Pages 195 - 196	<u>Independent Practice:</u> Pages 203 - 204
<u>Exit Slip:</u> Ticket Out the Door	<u>Exit Slip:</u> Reflect (Page 180)	<u>Exit Slip:</u> Ticket Out the Door	<u>Exit Slip:</u> Ticket Out the Door	<u>Exit Slip:</u> Ticket Out the Door
<u>Assessment:</u> Homework (Pages 177-178)	<u>Assessment:</u> Observations and Oral Responses.	<u>Assessment:</u> Homework (Pages 187-188)	<u>Assessment:</u> Homework (Pages 197-198)	<u>Assessment:</u> Homework (Pages 205-206)

<u>Day 6</u>	<u>Day 7</u>	<u>Day 8</u>	<u>Day 9</u>	<u>Day 10</u>
<u>Chapter:</u> 3	<u>Chapter:</u> 3	<u>Chapter:</u> 3	<u>Chapter:</u> 3	<u>Chapter:</u> 3
<u>Lesson:</u> Inquiry Lab	<u>Lesson:</u> Lesson 5	<u>Lesson:</u> Problem-Solving Investigation	<u>Lesson:</u> 6	<u>Lesson:</u> Inquiry Lab
<u>Standards:</u> 8.EE.6	<u>Standards:</u> 8.EE.8c	<u>Standards:</u> 8.EE.8	<u>Standards:</u> 8.EE.8c	<u>Standards:</u> 8.EE.8, 8.EE.8a, 8.EE.8b, 8.EE.8c
<u>Mathematical Practices:</u> 1, 3, 5	<u>Mathematical Practices:</u> 1, 3, 4	<u>Mathematical Practices:</u> 1, 3, 4	<u>Mathematical Practices:</u> 1, 2, 3, 4, 5, 7	<u>Mathematical Practices:</u> 1, 3, 5, 7
<u>Academic Vocabulary:</u> None	<u>Academic Vocabulary:</u> X-Intercept, Standard Form	<u>Academic Vocabulary:</u> None	<u>Academic Vocabulary:</u> Point-Slope Form	<u>Academic Vocabulary:</u> None
<u>Objective:</u> Graph and analyze slope triangles.	<u>Objective:</u> Graph a function using the x- and y-intercepts.	<u>Objective:</u> Guess, check, and revise to solve problems.	<u>Objective:</u> Write an equation of a line.	<u>Objective:</u> Find one solution for a set of two equations.
<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board
<u>Guided Practice:</u> Page 207	<u>Guided Practice:</u> Page 212	<u>Guided Practice:</u> Page 217	<u>Guided Practice:</u> Page 224	<u>Guided Practice:</u> Page 231
<u>Independent Practice:</u> Page 208	<u>Independent Practice:</u> Pages 213 -214	<u>Independent Practice:</u> Page 218	<u>Independent Practice:</u> Pages 225 - 226	<u>Independent Practice:</u> Page 232
<u>Exit Slip:</u> Reflect (Page 208)	<u>Exit Slip:</u> Ticket Out the Door	<u>Exit Slip:</u> Collaborate (Page 219)	<u>Exit Slip:</u> Ticket Out the Door	<u>Exit Slip:</u> Reflect (Page 232)
<u>Assessment:</u> Observations, Class Discussions, and Oral Responses.	<u>Assessment:</u> Homework (Pages 215 - 216)	<u>Assessment:</u> Mid-Chapter Check	<u>Assessment:</u> Homework (Pages 227-228)	<u>Assessment:</u> Observations, Class Discussions, and Oral Responses.

<u>Day 11</u>	<u>Day 12</u>	<u>Day 13</u>	<u>Day 14</u>	<u>Day 15</u>
<u>Chapter:</u> 3	<u>Chapter:</u> 3	<u>Chapter:</u> 3	<u>Chapter:</u> 3	<u>Chapter:</u> 3
<u>Lesson:</u> 7	<u>Lesson:</u> Lesson 8	<u>Lesson:</u> Inquiry Lab	<u>Lesson:</u> Chapter Review	<u>Lesson:</u> Chapter Test
<u>Standards:</u> 8.EE.8, 8.EE.8a, 8.EE.8b, 8.EE.8c	<u>Standards:</u> 8.EE.8, 8.EE.8b, 8.EE.8c	<u>Standards:</u> 8.EE.8, 8.EE.8a, 8.EE.8b, 8.EE.8c	<u>Standards:</u> 8.EE.5, 8.EE.6, 8.EE.8, 8.F.2, 8.F.3, 8.F.4, 8.F.5	<u>Standards:</u> 8.EE.5, 8.EE.6, 8.EE.8, 8.F.2, 8.F.3, 8.F.4, 8.F.5
<u>Mathematical Practices:</u> 1, 3, 4, 7	<u>Mathematical Practices:</u> 1, 3, 4, 7	<u>Mathematical Practices:</u> 1, 3, 5	<u>Mathematical Practices:</u> 1, 3, 5, 7	<u>Mathematical Practices:</u> 1, 3, 5, 7
<u>Academic Vocabulary:</u> Systems of Equations	<u>Academic Vocabulary:</u> Substitution	<u>Academic Vocabulary:</u> None	<u>Academic Vocabulary:</u> All	<u>Academic Vocabulary:</u> All
<u>Objective:</u> Solve systems of equations by graphing.	<u>Objective:</u> Solve systems of equations algebraically.	<u>Objective:</u> Solve real-world mathematical problems using two linear equations in two variables.	<u>Objective:</u> Use graphs to help with solving problems.	<u>Objective:</u> Use graphs to help with solving problems.
<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board
<u>Guided Practice:</u> Page 238	<u>Guided Practice:</u> Page 246	<u>Guided Practice:</u> Page 251	<u>Guided Practice:</u> Page 254	<u>Guided Practice:</u> Answer any questions students may have.
<u>Independent Practice:</u> Pages 239 - 240	<u>Independent Practice:</u> Pages 247 - 248	<u>Independent Practice:</u> Page 252	<u>Independent Practice:</u> Pages 255 - 257	<u>Independent Practice:</u> Chapter Test
<u>Exit Slip:</u> Ticket Out the Door	<u>Exit Slip:</u> Ticket Out the Door	<u>Exit Slip:</u> Reflect (Page 252)	<u>Exit Slip:</u> Reflect (Page 258)	<u>Exit Slip:</u> Reflect (What did you not understand from the test?)
<u>Assessment:</u> Homework (Pages 241 - 242)	<u>Assessment:</u> Homework (Pages 249 – 250)	<u>Assessment:</u> Observations, Class Discussions, and Oral Responses.	<u>Assessment:</u> Observations, Class Discussions, and Oral Responses.	<u>Assessment:</u> Chapter Test

<u>Day 21</u>	<u>Day 22</u>	<u>Day 23</u>	<u>Day 24</u>	<u>Day 25</u>
<u>Chapter:</u> 4	<u>Chapter:</u> 4	<u>Chapter:</u> 4	<u>Chapter:</u> 4	<u>Chapter:</u> 4
<u>Lesson:</u> Problem Solving Investigation <u>Day 16</u> <u>Chapter:</u> 4	<u>Lesson:</u> 5 <u>Day 17</u> <u>Chapter:</u> 4	<u>Lesson:</u> 6 <u>Day 18</u> <u>Chapter:</u> 4	<u>Lesson:</u> 7 <u>Day 19</u> <u>Chapter:</u> 4	<u>Lesson:</u> 8 <u>Day 20</u> <u>Chapter:</u> 4
<u>Standards:</u> 8.F.4 <u>Lesson:</u> 1	<u>Standards:</u> 8.F.2, 8.F.4 <u>Lesson:</u> 2	<u>Standards:</u> 8.F.4 <u>Lesson:</u> Inquiry Lab	<u>Standards:</u> 8.F.1, 8.F.3, 8.F.5 <u>Lesson:</u> 3	<u>Standards:</u> 8.F.3, 8.F.5 <u>Lesson:</u> 4
<u>Mathematical Practices:</u> 1, 2, 4 <u>Mathematical Practices:</u> 1, 3, 4, 5 <u>Academic Vocabulary:</u> None <u>Academic Vocabulary:</u> Linear Equation	<u>Mathematical Practices:</u> 1, 2, 3, 4 <u>Mathematical Practices:</u> 1, 3, 4, 7 <u>Academic Vocabulary:</u> None <u>Academic Vocabulary:</u> Relation, Domain, Range	<u>Mathematical Practices:</u> 1, 3, 4 <u>Mathematical Practices:</u> 1, 3, 4 <u>Academic Vocabulary:</u> None <u>Academic Vocabulary:</u> None	<u>Standards:</u> 8.F.1, 8.F.4 <u>Mathematical Practices:</u> 1, 3, 2, 4, 3, 7, 4 <u>Academic Vocabulary:</u> Function, Function Table, Nonlinear Function <u>Academic Vocabulary:</u> Independent Variable,	<u>Mathematical Practices:</u> 1, 3, 4, 7 <u>Standards:</u> 8.F.1, 8.F.3 <u>Mathematical Practices:</u> 1, 3, 4, 7 <u>Academic Vocabulary:</u> Quadratic Function <u>Academic Vocabulary:</u> Linear Function,
<u>Objective:</u> Solve problems by making a table.	<u>Objective:</u> Compare properties of functions.	<u>Objective:</u> Determine and interpret the rate of change	<u>Objective:</u> Determine whether a function is linear	<u>Objective:</u> Graph, Discrete
<u>Objective:</u> Translate tables and graphs into linear equations.	<u>Objective:</u> Use the coordinate plane to represent relations.	<u>Objective:</u> Determine whether a relation is a function.	<u>Objective:</u> Find function values and complete function tables.	<u>Objective:</u> Represent linear functions using function tables and graphs and determine whether a set of data is continuous or discrete.
<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board	<u>BellRinger:</u> On Board
<u>Guided Practice:</u> Page 305	<u>Guided Practice:</u> Page 314	<u>Guided Practice:</u> Page 322	<u>Guided Practice:</u> Page 330	<u>Guided Practice:</u> Page 338
<u>BellRinger:</u> On Board <u>Independent Practice:</u> Page 272 <u>Independent Practice:</u> Pages 273 - 274 <u>Exit Slip:</u> Collaborate (Page 307) <u>Exit Slip:</u> Ticket Out the Door	<u>BellRinger:</u> On Board <u>Independent Practice:</u> Page 280 <u>Independent Practice:</u> Pages 281 - 282 <u>Exit Slip:</u> Ticket Out the Door <u>Exit Slip:</u> Ticket Out the Door	<u>BellRinger:</u> On Board <u>Independent Practice:</u> Page 285 <u>Independent Practice:</u> Pages 323 - 324 <u>Exit Slip:</u> Ticket Out the Door <u>Exit Slip:</u> Reflect (Page 286) <u>Exit Slip:</u> Ticket Out the Door	<u>BellRinger:</u> On Board <u>Independent Practice:</u> Page 290 <u>Independent Practice:</u> Pages 331 - 332 <u>Exit Slip:</u> Ticket Out the Door <u>Exit Slip:</u> Ticket Out the Door <u>Exit Slip:</u> Ticket Out the Door	<u>BellRinger:</u> On Board <u>Guided Practice:</u> Page 300 <u>Independent Practice:</u> Pages 301 - 302 <u>Independent Practice:</u> Pages 339 - 340 <u>Exit Slip:</u> Ticket Out the Door <u>Exit Slip:</u> Ticket Out the Door
<u>Assessment:</u> Homework (Pages 275-276)	<u>Assessment:</u> Homework (Pages 283-284)	<u>Assessment:</u> Observation, Oral Response, Class Discussion	<u>Assessment:</u> Homework (Pages 293 - 294)	<u>Assessment:</u> Homework (Pages 303 - 304)
<u>Assessment:</u> Mid-Chapter Check (Page 308)	<u>Assessment:</u> Homework (Pages 317 - 318)	<u>Assessment:</u> Homework (Pages 325 - 326)	<u>Assessment:</u> Homework (Pages 333 - 334)	<u>Assessment:</u> Homework (Pages 341 - 342)

<u>Day 26</u>	<u>Day 27</u>	<u>Day 28</u>	<u>Day 29</u>	
<u>Chapter:</u> 4 <u>Lesson:</u> Inquiry Lab	<u>Chapter:</u> 4 <u>Lesson:</u> 9	<u>Chapter:</u> 4 <u>Lesson:</u> Chapter Review	<u>Chapter:</u> 4 <u>Lesson:</u> Chapter Test	
<u>Standards:</u> 8.F.3, 8.F.5 <u>Mathematical Practices:</u> 1, 3, 7 <u>Academic Vocabulary:</u> None	<u>Standards:</u> 8.F.5 <u>Mathematical Practices:</u> 1, 2, 3, 4 <u>Academic Vocabulary:</u> Qualitative Graphs	<u>Standards:</u> 8.F.1, 8.F.2, 8.F.3, 8.F.4, 8.F.5 <u>Mathematical Practices:</u> 1, 2, 3, 4, 5, 7 <u>Academic Vocabulary:</u> All	<u>Standards:</u> 8.F.1, 8.F.2, 8.F.3, 8.F.4, 8.F.5 <u>Mathematical Practices:</u> 1, 2, 3, 4, 5, 7 <u>Academic Vocabulary:</u> All	
<u>Objective:</u> Use a graphing calculator to graph families of nonlinear functions.	<u>Objective:</u> Sketch and describe qualitative graphs.	<u>Objective:</u> Model relationships between quantities.	<u>Objective:</u> Model relationships between quantities.	
<u>BellRinger:</u> On Board <u>Guided Practice:</u> Page 343 <u>Independent Practice:</u> Pages 344 - 345 <u>Exit Slip:</u> Reflect (Page 346)	<u>BellRinger:</u> On Board <u>Guided Practice:</u> Page 350 <u>Independent Practice:</u> Pages 351 - 352 <u>Exit Slip:</u> Ticket Out the Door	<u>BellRinger:</u> On Board <u>Guided Practice:</u> Pages 355 - 356 <u>Independent Practice:</u> Pages 357 - 359 <u>Exit Slip:</u> Reflect (Page 360)	<u>BellRinger:</u> On Board <u>Guided Practice:</u> Answer any questions students may have. <u>Independent Practice:</u> Chapter Test <u>Exit Slip:</u> Reflect (What did you not understand from the test?)	
<u>Assessment:</u> Homework (Analyze - Page 346)	<u>Assessment:</u> Homework (Pages 353 – 354)	<u>Assessment:</u> Observation, Oral Response, Class Discussion.	<u>Assessment:</u> Chapter Test	