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| **Topic 8E – Mathematics – Linear & Proportional Relationships – Resources**  |

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| **Standards** | **Prerequisite** | **Big Ideas** |
| **[8.EE.B.5](http://www.corestandards.org/Math/Content/8/EE/)****[8.EE.B.6](http://www.corestandards.org/Math/Content/8/EE/)** | Graphing on a coordinate plane.Subtracting integersWriting ordered pairsUnit rate | Understand the connections between proportional relationships, lines, and linear equations.Analyze linear equations. |

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| **SMART & Presentation Resources** | **SMART File** - Algebra: Slope of a Line <http://exchange.smarttech.com/details.html?id=f50a4306-be6c-46e2-97c3-434664d585ce> **SMART File** - Algebra: Direct Variation<http://exchange.smarttech.com/details.html?id=bf3725c7-245c-4cd6-a3e6-e09e3454a157>  |
| **Engaging Activities** | **Illuminations: Rise-Run Triangles**<http://illuminations.nctm.org/LessonDetail.aspx?id=L728> **NFL Football and Direct Variation** [https://grade8commoncoremath.wikispaces.hcpss.org/file/history/8.EE.5+Lesson+NFL+Football+and+Direct+Variation.doc](https://grade8commoncoremath.wikispaces.hcpss.org/file/history/8.EE.5%2BLesson%2BNFL%2BFootball%2Band%2BDirect%2BVariation.doc) **Lesson Seed:** Thirsty Crow: Direct Variation<http://webcache.googleusercontent.com/search?q=cache:P3qcQogXZeAJ:mdk12.org/instruction/academies/resources_2012/Mathematics/pdf/Math_Academy_Presentations/M.S._EEA_to_mdk12.org/Day_1_MS_Afternoon_Lesson_Seeds/071712_Lesson_Seed_8Thirsty_Crow.docx+8.ee.5+activities&cd=4&hl=en&ct=clnk&gl=us> **Blog Post** – Has a variety of downloadable activities for the linear unit.<http://lzlomek.wordpress.com/2012/08/18/my-favorite-unit-to-teach-linear-functions/> **GAME: Algebra Vs. Cockroaches**<http://hotmath.com/hotmath_help/games/kp/kp_hotmath_sound.swf>  |
| **Videos** | **BrainPop -** Slope and Intercept<http://www.brainpop.com/math/algebra/slopeandintercept/preview.weml> **Learning Zillion –** <http://learnzillion.com/lessons/2452-find-the-slope-of-a-linear-function>  |
| **Practice/****Assessment** | **Practice**<http://www.scsk12.org/SCS/curriculum_guides/6-12_Math_Webpage/PDF/Graph_Lines_in_Slope-Inter_Form> **Between the Lines Activity**<http://bethanyshultz.weebly.com/uploads/2/2/6/1/22614328/graphinglinearequationswithcolorworksheet.pdf>  |
| **FALs** | **Lines and Linear Equations**<http://map.mathshell.org/materials/lessons.php?taskid=440&subpage=concept> **Modeling Situations with Linear Equations**<http://map.mathshell.org/materials/lessons.php?taskid=211&subpage=concept>  |
| **CMP** | **CMP2** - Say it With Symbols - Inv. 1,2,3,4**CMP2** - The Shapes of Algebra - Inv. 2,3,4 |