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| **Afrocentric Applied Learning** **Lesson Plan****Algebra & Financial Literacy** |
| **Title:** **Multiplier Effect of Black spending in and outside of Black Economy** |
| **Subject:** Algebra 1 | **Length of Time:** 1 week |
| **Unit Summary:** The unit introduces the concepts of Algebra and reviews some skills from 8th grade. |
| **Learning Targets** |
| PARCC http://www.parcconline.org/sites/parcc/files/green.png Major Clusters;  http://www.parcconline.org/sites/parcc/files/blue.png Supporting Clusters;  http://www.parcconline.org/sites/parcc/files/yellow.png Additional Clusters |
| **Conceptual Category: Algebra Domain: Seeing Structure in Expressions** |
| **Cluster: Interpret the structure of expressions, create equations that describe numbers or relationships** |
| **Standard#:** |  **Standard:** |
| A-SSE.1 | Interpret expressions that represent a quantity in terms of its context. |
| **Conceptual Category: Number and Quantity** |
| **Cluster: Use properties of rational and irrational numbers.** |
| **Standard#:** | **Standard:** |
| N-RN.3 | Explain why the sum or product of two rational numbers is rational; that the sum of a rational number and an irrational number is irrational; and that the product of a nonzero rational number and an irrational number is irrational. |
| Domain: Standards for Math Practice |
| **Standard#:** |  **Standard:** |
| MP1 | Making sense of problems and persevere in solving them. |
| MP2 | Reason abstractly and quantitatively. |
| MP3 | Construct viable arguments and critique the reasoning of others. |
| MP4 | Model with mathematics. |
| MP5 | Use appropriate tools strategically |
| MP6 | Attend to precision. |
| MP7 | Look for and make use of structure. |
| MP8 | Look for and express regularity in repeated reasoning. |
| **Unit Essential Questions:*** How How often does a dollar circulate in Black communities, before leaving them?
* What would be the financial gain or impact on total Black economy if that number would match that of Asians or Jews for example?
* What is the multiplier effect resulting from Black spending with Black businesses?
* What is the total injection into the U.S economy resulting from current Black consumption patterns??
* Why are exponent properties important in mathematics?
 | **Unit Enduring Understandings:*** The set of real numbers has several special subsets related in particular ways.
* The properties of real numbers are relationships that are true for all real numbers, except in one case, zero.
* You can represent mathematical phrases and real-world quantities using algebraic expressions.
* You can use substitution to evaluate an expression for a value.
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| **Unit Objectives:*** *Students will be able to classify numbers in the real number system.*
* *Students will be able to identify and combine like terms.*
* *Students will be able to evaluate an expression for given values.*
* *Students will be able to use exponent properties to simplify expressions.*
* *Students will be able to put terms in order by the degree of a variable.*
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| **Evidence of Learning** |
| **Formative Assessments:** * SMART Response questions used throughout the unit.
* Labs
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| **Summative Assessment:*** Quiz
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| **Lesson Plan** |
| **Topics** | **Timeframe** |
| Topic #1: Calculate the general Multiplier effect for a $100 injection | 1 day |
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| Topic #2: Calculate the Multiplier effect for a $1 trillion in African American income in a year. | 1 day |
| Topic #3: Calculate the Multiplier effect for the total income of another ethnic group (i.e. Asian, Jewish, White, Latino@a) | 1 day |
| Topic #4: Calculate the total injection into U.S. economies resulting from Black consumption | 2 days |
| Topic #5: Make conjectures on how changing spending habits of Blacks can impact the Black economy. Quantify with examples if you can. |
| **Curriculum Development Resources:*** <http://www.njctl.org/courses/math/algebra-i/numbers-operations-and-expressions-algebra-1/>
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| **Lesson Components** |
| **21st Century Skills*** Financial, Economic, Business, and Entrepreneurial Literacy

**21st Century Themes*** Critical Thinking and Problem Solving
* Communication and Collaboration
* Life and Career Skills
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