

Brown Math Enrichment - The Game of Life

Unit Focus

Sometimes it is a challenge for students to understand how to apply abstract or theoretical math concepts to everyday life. The Game of Life provides students with the opportunity to choose a career and plan a budget around loans, car payments, groceries, cell phone payments, and rent. As they settle into the life they create, they must navigate unexpected events along the way such as home repairs, pay raises, and medical bills. Keeping the budget balanced and the loans paid will make for a very interesting Game of Life.

STAGE 1: DESIRED RESULTS – KEY UNDERSTANDINGS		
ESTABLISHED GOALS		TRANSFER
Common Core Standards Mathematics: 6 2000322 Mathematical Practices • CCSS.MATH.MP.2 Reason abstractly and quantitatively. • CCSS.MATH.MP.5 Use appropriate tools strategically. • CCSS.MATH.MP.3 Construct viable arguments and critique the reasoning of others.	T1 make sense of a problem, initiate a plan, execute it, and every the total sense of a problem, initiate a plan, execute it, and every the total sense of the total	
• CCSS.MATH.MP.6 Attend to precision. Student Growth and Development 21st Century Capacities Matrix Critical Thinking • Analyzing: Students will be able to examine information/data/evidence to make inferences and identify possible underlying assumptions, patterns, and relationships. Self-Direction • Reflection: Students will be able to analyze their performance to evaluate progress toward learning goals in order to determine next step(s).	various contexts. U3 Mathematicians identify relevant tools, strategies, relationships, and/or information in order to draw conclusions.	Q3 How can I explain this mathematically? OF KNOWLEDGE AND SKILL
	KNOWLEDGE	SKILLS
	K1 Vocabulary: debt, loan, percentage, income, tax rate, interest, budget, salary, utilities, expenses, pie chart, projected, annual	S1 Students will be able to analyze a budget. S2 Students will be able to create a budget given a total amount to be budgeted and percentages for each category. S3 Students will be able to compare a budget to actual spending. S4 Students will be able to find the payments for a loan given loan amount, length of loan and interest. S5 Students will be able to compare two loans. S6 Students will be able to determine total interest paid given the loan amount, length of loan and installment amount. S7 Students will be able to determine rate given the loan amount, length of loan and installment amount. S8 Students will be able to use Microsoft Excel to create a pie chart.