## Name: Madison Shoukletovich

# **Hopscotch Lesson Plan**

Lesson Segment Focus: Basic Algebra

# Lesson 1 of 1

## Course & topic addressed: Math & Basic Algebra

## **Student Outcomes**

Specific learning objectives for this lesson.	The specific learning objective for this lesson is for students to show knowledge in how to code along with the basic algebraic functions of math.
Describe the connection to previous lessons. (Prior knowledge of students this builds upon)	The connection to previous lessons that this lesson builds upon is basic mathematical knowledge of how to add, subtract, multiply, and divide whole numbers. Before students enter the third grade they should understand each basic mathematical symbol in order to complete this assignment.
Knowledge of students' background (personal, cultural, or community assets)	The knowledge of students' background in terms of personal assets is having prior knowledge of how to code from playing games at home or being advanced in terms of their math skills. I would put students in groups in terms of level of ability and put one advanced student in each group.

# **State Academic Content Standards**

List the state acade standards with whi aligned. Include su number & text of t	ch this lesson is ate abbreviation and	<b>Operations and Algebraic Thinking: Solve problems involving the four operations and identify and explain patterns in arithmetic.</b>
number & text of t	në standard.	

### Academic Language Support

What planned instructional supports might you use to assist students to understand key academic language to express and develop their content learning? What will you do to provide varying supports for students at different levels of academic language development?	The planned instructional supports that I might use to assist students to understand key academic language to express and develop their content learning is flashcards. I would have a math symbol on one side of the flashcard and then the name for that symbol on the other side. To provide varying supports for students at different levels of academic language development I would individually help them sound out words if they are struggling.
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# **Key Vocabulary**

What vocabulary terms/content specific	Addition, subtraction, multiplication, and division
terminology must be addressed for	
students to master the lesson?	

Date: 11/5/18

Grade: 3

# Materials

	The materials needed by the teacher for this lesson is an iPad, the Hopscotch coding app, and basic mathematical computations that involve the four basic algebraic functions for students to solve.
41.1	The materials needed by the students for this lesson is an iPad, the Hopscotch coding app, and the list of math problems that the teacher has provided.

# Lesson Timeline with Instructional Strategies & Learning Tasks (This should be VERY DETAILED)

Amount of Time	Teaching & Learning Activities	Describe what YOU (teacher) will be doing and/or what STUDENTS will be doing during this part of the lesson.
5 minutes	Introduction: To introduce this lesson I will ask my students if any of them know how to code. Instruction: For the bulk of the lesson	I will ask the introduction question and then students will raise their hand in order to answer the question. I will then call on students that want to add to the discussion about their background knowledge in coding. I will teach the students about the basics of coding and what they need to know in order to make their
30 minutes	I will be teaching students about coding and how they can make their own game using mathematics.	own game. Using the app Hopscotch there are several tutorial videos that I will have my students watch in order to make it easier for them to understand. The students can also play with games that other students have created as well and get a sneak peek at what they will be doing. For the assignment that I will have students create I will ask them to make a game that involves the four basic functions of math. They could code a matching game or even a multiple-choice game. With the help of the Hopscotch app they will be able to do it almost completely on their own. I will give my students the list of problems that I want them to include just to make sure they don't leave one out. I will also use this as a type of informal assessment to see if they get the answers right on each other's games.
5 minutes	<b><u>Closure</u>:</b> To close the lesson I will ask my students what they thought about the activity.	I will ask my students the question and they will raise their hand if they have anything they want to contribute to the discussion. After students have answered this question, then I will ask them another question about what other activities they think they can do with this app.

### Accommodations/Modifications

How might I modify instruction for:	I would modify instruction for remediation students by allowing them to work with a partner on the activity
	because it may take them longer to grasp the concept of coding on their own. For intervention students I will try
Remediation?	to help them individually as much as I can. For IEP/504 students I would make sure the lesson followed the plan
Intervention?	set forth by the team and if it does not, then I would make extra modifications. For LEP/ESL students I would do
IEP/504?	the same thing that I did for the remediation students by allowing them to work with a partner on the activity
LEP/ESL?	because it may take them longer to grasp the concept of coding on their own.

#### **Differentiation:**

How might you provide a variety of	I would provide a variety of instructional methods/tasks/strategies to ensure all student needs are met by
instructional methods/tasks/instructional	helping individual students that seem to be struggling. Most students will be able to do the activity on
strategies to ensure all student needs are	their own since there are videos within the app, but there will still be some that struggle and I will help
met?	them one-on-one.

#### Assessments: Formative and/or Summative

Describe the tools/procedures that will be	$\Box$ Formative / $\Box$ Summative	
used in this lesson to monitor students'	$\Box$ Formative / $\Box$ Summative	
learning of the lesson objective/s (include	$\Box$ Formative / $\Box$ Summative	
type of assessment & what is assessed).		

### **Research/Theory**

Identify theories or research that supports	
the approach you used.	

#### Lesson Reflection/Evaluation

What went well?	TO BE FILLED IN AFTER TEACHING
What changes should be made?	
How will I use assessment data for next	
steps?	

Include supporting material such as slides, pictures, copy of textbook, and handouts for any activities students will be using as part of your lesson.

\*adapted from: http://webcache.googleusercontent.com/search?q=cache:EsQcNWuG1ZoJ:web.mnstate.edu/harms/StudentTeachers/edTPA-LessonPlan.doc+&cd=2&hl=en&ct=clnk&gl=us; http://www.moreheadstate.edu/getmedia/cd3fd026-939f-4a47-a938-29c06d74ca01/Lesson-Plan-and-Reflections.aspx; http://www.mcneese.edu/f/c/9cb690d2/Lesson%20Plan%20Rubric%20Aligned%20with%20InTASC.docx;https://www.uwsp.edu/education/Documents/edTPA/Resource12.pdf; https://www.uwsp.edu/education/Documents/edTPA/Resource11.pdf; https://www.uwsp.edu/education/Documents/edTPA/SpecEdLessonPlanTemplateSOE.docx; https://www.uwsp.edu/education/Documents/edTPA/SpecEdLessonPlanGuide.docx; https://www.uwsp.edu/education/Documents/edTPA/SpecEdLessonPlanTemplate.docx