**Lesson Plan Template** 

Grade: First			Subject: Science/Math
Materials:			Technology Needed:
Tub/bucket	:ket		N/A
Water			
Apple			
Bar graph worksheet			Culting Provided and Consents Applications
Instructional Strategies:  Direct instruction   Deer teaching/collaboration/		Decrete chine/collaboration/	Guided Practices and Concrete Application:
	d practice	<ul><li>Peer teaching/collaboration/ cooperative learning</li></ul>	☐ Large group activity ☐ Hands-on
	ic Seminar	☐ Visuals/Graphic organizers	☐ Independent activity ☐ Technology integration
	ng Centers	□ PBL	☐ Pairing/collaboration ☐ Imitation/Repeat/Mimic
□ Learnii	_	☐ Discussion/Debate	☐ Simulations/Scenarios
	ology integration	☐ Modeling	Other (list)
□ Other		- Modeling	Explain:
			Differentiation
ESS1.3 Planning and carrying out investigations			Below Proficiency:
-Make observations (firsthand or from media) to collect data that can			Have teacher aid help with worksheet
be used to make comparisons.			Have a peer help student with worksheet
1.MD.4 Organize, represent, and interpret data with up to three			Above Proficiency:
categories. Ask and answer questions about the total number of data			Ask more in-depth questions
points, how many in each category, and how many more or less are in			Pair with below student to help them
one category than in another			
Objective(s)			Approaching/Emerging Proficiency:
By the end of the lesson, students will determine whether an apple			Pair with above student to help
sinks or floats in water. Students will also know how to fill out a simple			Modalities/Learning Preferences:
bar graph and know how to read the data collected.			Visual – seeing experiment, worksheet
Bloom's Taxonomy Cognitive Level:			Auditory – hearing vocab, directions
Apply, analyze, evaluate, create			Addition y meaning vocab, directions
Classroom Management- (grouping(s), movement/transitions, etc.) Beha			Behavior Expectations- (systems, strategies, procedures specific to the
			lesson, rules and expectations, etc.)
Move by table groups to grab crayon and pencil and clip			Listening ears on
boards, come back to carpet			Hands in your lap
<ul> <li>123 eyes on me I should see all eyes on me</li> </ul>		ould see all eyes on me	We will look but not touch
			When we are grabbing materials make sure we are not
			talking, grab what you need and come back to the carpet in a
0.00		Dun and dun and	quiet manner.
Minutes	Cat/Duan.	Procedures	
	Set-up/Prep:		
2	<ul> <li>Have bucket/tub full of water</li> <li>Have apple on side ready</li> </ul>		
_	Make sure bucket/tub of water is not distracting		
	Have enough copies printed for each student		
		ag., copies printed for each stadent	
	Engage: (opening a	ctivity/ anticipatory Set – access prior le	arning / stimulate interest /generate questions, etc.)
	<ul> <li>I have a g</li> </ul>	reat, fun activity for all of you today!!	
	<ul> <li>But to be able to do the fun activity you all have to have your listening ears on, let's make sure they are all on – rub you</li> </ul>		
2	ears, are they turned on now?? GREAT, listen carefully		
	<ul> <li>Today we are going to experiment if an apple floats in water or if it will sink in water</li> <li>No blurting, I want to see hands raised and only hear one voice talking</li> </ul>		
	Explain: (concepts, procedures, vocabulary, etc.)		
	We have a few vocab words to go over:  Does anyong know what experiment means? (a test to find semathing out)		
	Does anyone know what experiment means? (a test to find something out)		
	Has anyone heard the word, hypothesis? Does anyone know what it means? (a guess) we are going to guess/hypothesize if the apple		
	is going to sink or fl		
5-10	Float? (object rests on the surface water)		
	Sink? (object under water)		

### **Lesson Plan Template**

Who knows what collecting data means? (gathering and measuring information about something) -- we are going to write down who thinks the apple is going to float and who thinks the apple is going to sink Before we experiment, I want you to collect your data on this worksheet Call kids by table groups to grab pencil, one crayon and a clipboard – come back to carpet, pass out paper First put your name at the top!! I would like you to color in the apple in you think it is going to float (stay above the water) or sink (go under the water) - point to apple (once done coloring that apple put your items on the floor in front of you and your hands in your lap) Raise your hand high and keep it up if you think the apple is going to float (count floating hands) -- watch me first, show them how to fill in bar graph – now you fill it in Raise your hand high and keep it up if you think the apple is going to sink (count sinking hands) -- watch me first, show them how to fill in bar graph - now you fill it in Which one has more? How do you know that? -- show them what apple to color - now you color it in Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions) Review what every ones guesses/hypothesis is/are 5-7 Put apple in water What did we discover? Why do you think the apple floats? (apples float because 25% of their volume (body) is air) Review (wrap up and transition to next activity): What did the apple do? -- show them what part to fill in, have them fill it in Anyone remember what experiment means? Hypothesis? Float?

## Formative Assessment: (linked to objectives)

What does collect data mean?

Progress monitoring throughout lesson- clarifying questions, checkin strategies, etc.

• Fist to 5

5

# **Consideration for Back-up Plan:**

Sink?

Fill out one paper for whole class instead of individually Instead of doing full group bring up small groups and have them keep the secret of if the apple sank or floated. Then come back as a whole group and ask the questions

## Summative Assessment (linked back to objectives) End of lesson:

Collect bar graph worksheet (math lesson)

If applicable- overall unit, chapter, concept, etc.:

### Reflection (What went well? What did the students learn? How do you know? What changes would you make?):

This lesson originally was a very good lesson. The only changes I would make would be to add some type of movement throughout the lesson. There was a student that came up to me and said that they thought big apples would sink because they are bigger and heavier and little apples would float since they are smaller and lighter. I have not thought of this concept while writing the lesson. It was a good thing there were multiple apples to choose from for this lesson so I grabbed a big apple and a little apple to prove that no matter the size of the apples they will still float. I do need to change how I go about my procedures; I need to say them right away at the beginning of the lesson instead of doing it while they are doing what I asked of them.

# Name: Will Apples Sink or Float? 16 I think the apple will 14 18 12 11 float Sink 10 The class thinks the apple will 8 5 8ink float 8 The apple actually did this 1 Sink float float 8ink