Math Task Template 6th 6.RP.A.3d **Date: 12/10/2014**

Task: Pixar's Up Balloon Task https://www.youtube.com/watch?v=N1NLzBGJavc#t=18

In the movie Up, helium balloons are used to lift Mr. Frederickson's house. If a quarter weighs about 5.6 grams, a nickel weighs 5 grams, and a dime weighs 2.25 grams, how many balloons would it take to lift the following:

1. **How many balloons will it take to lift a quarter?**
2. **How many balloons will it take to lift a nickel?**
3. **How many balloons will it take to lift a dime?**
4. **How many balloons will it take to lift the exact amount of change in the bag provided? Explain your reasoning, calculations, and show your work.**
5. **How many balloons will it take to lift a member in your group?**

Common Core State Standards for Mathematical Content	Common Core State Standards for Mathematical Practice
Standard: 6th Focus: Ratios & Proportional Reasoning(RP) Standard Letter: A Standard Number : 3	☒MP1 Make 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.

Set-up Phase: Student anticipated task question Students will watch Pixar's Up movie clip and form anticipated questions prior to seeing the task prompt.	**Grouping Strategy:** Group of 4	**Materials:** ☒Pencil ☐Array ☐iPad ☐Number Line ☐Base Ten Blocks ☐Counters ☒Graph Paper ☐GeoBoard ☒Calculator ☐Whiteboards ☐Clickers ☐Ruler ☐Protractor ☐Compass ☐Dice
Explore Phase/Private Work Time: RICE		
Explore Phase/Small Group Time: Discussion Talking Chips		
Possible Solution Paths	**Assessing and Advancing Questions**	
Student can not get started		
Student answers correctly with an algorithm		
Student uses a guess or check method.		
Possible Student Misconceptions	**Redirecting Questions**	

Student solves by using an algorithm and makes a common mistake.	
Student uses mental math and makes an error.	
Student uses the incorrect operation.	

Share/Discuss/Analyze:

Select and sequence 1-2 groups to present and use Accountable Talk Discussion with other groups.

Quick Write:

Instruct students to make a graphic organizer on how to complete the task.

Summary:

Homework Starter

Up, Up, & Away Task

16 ounces = 1 pounds

28.349 grams = 1 ounce

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