Setup:

Wash the tables and desks and cover with bulletin board paper to make clean up easy.

Wash harvested greens from the garden and place in a bowl.

On a central table, set out liquids and bowls of fruit and greens.

If the bananas are fresh, place the bananas next to a cutting board and a plastic knife.

Have measuring cups available for each group or on the central table.

Make sure students can easily access all items.

Set up a blending station that will be controlled by the teacher or adult helper.

Each student group will need their own blender cup.

Grade Level: 4

Subject Area: Science / Health

Time Frame: 1-2 class periods

Materials:

Website: http://kidshealth.org/en/teens/vitamins-minerals.html

Basic smoothie recipe

Smart Smoothie recipe template

Nutrient cards

Color Me Healthy handout

What's in a ½ cup of fruit/vegetables

handout

Dole Nutrition Handbook (optional)

Blender base

Blender cups (1 per group)

Greens harvested from the garden (kale,

spinach)

A variety of fresh or frozen fruits (frozen

creates a thicker, slushier smoothie)

Fresh or frozen bananas

A variety of liquids: almond milk, coconut

water, 100% juice (no sugar added)

Plastic mixing bowls

Serving spoons

Measuring cups

Cutting board

Plastic knife

Tasting cups

Standards:

4.L.2.2

Activity:

Prior to starting their smoothies, have each student go to the following website and read about vitamins and minerals to complete the Vitamins & Minerals Worksheet.

http://kidshealth.org/en/teens/vitamins-minerals.html

1. Divide the class into 4-6 groups. Make sure each group has one copy of each of the resources listed above. Each group will be responsible for creating their own Smart Smoothie recipe.



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- 2. Give each group at least one nutrient card.
- 3. Using the Basic Smoothie Recipe and Smart Smoothie Template, and additional resources, each group will create a recipe for a Smart Smoothie. The recipe must incorporate the nutrient listed on the group's nutrient card. The students will list all vitamins, minerals and health benefits/disease prevention attributes contained in their smoothie.
- 4. The students will make a 30-second commercial (live or videotaped) advertising their Smart Smoothie.
- 5. The students will use the blender cup and fresh ingredients to make their smoothie, bringing the cup with ingredients to the blending station to blend and pour a sample for each person in the class. Students should wash their hands before making their smoothie.
- 6. Each group will present their commercial and provide samples for the class to taste.
- 7. After each group has presented their commercials and tasted each smoothie, have the class graph their favorite smoothie using sticky notes on the board or using large graph paper.
- 8. Make copies of each group's recipe for all students or create a mini Smart Smoothie recipe book for each student to take home.

Your Notes & Ideas:

Vitamins & Minerals Worksheet

Use the following website to answer the questions below:

http://kidshealth.org/en/teens/vitamins-minerals.html

1.	Explain	the two	categories	of vitamins	and give	examples of e	each.

- 2. Why do you need a fresh supply of Vitamin C every day?
- 3. What are two ways vitamins and minerals can help your body?
- 4. Where do vitamins come from?
- 5. Where do minerals come from?

Nutrient	Sources	Health Benefits
Vitamin A		
Vitamin C		
Vitamin E		
Vitamin K		
Calcium		
Iron		
Potassium		



Basic Smoothie Recipe

Ingredients:

- 1/2 1 banana (adds natural sweetness and creaminess)
- 1 handful (approximately ½ cup) greens from the garden
- 1 1 ½ cup fresh or frozen fruit (frozen makes better smoothies)
- 3/4 1 cup liquid (almond milk, coconut water, 100% juice)
- ½ cup plain, fat free yogurt (optional)

Directions:

Combine all ingredients in a small blender and blend until smooth.





Smart Smoothie

Recipe Title:	 	
Ingredients:		
Directions:		
Vitamins:	 	
Minerals:		
Health Benefits:		
Disease Prevention:		
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