STEMming Up Heathy Eating—Answer Key

Activity Newspaper Grades 6-8

Page 1– Fill in the blanks

1. A seed needs **warmth, moisture** and **air** to germinate.

2. A seed should be planted **double** the width of the seed.

3. It is important to consider **plant spacing, water/ light requirements** and **harvest times** when planting seeds.

Page 2– Crossword puzzle

Answer	Clue
Coffee	This bean is typically roasted and ground.
Avocado	This fruit has a nutty flavor with a smooth texture.
Pumpkin	This crop is known for its bright orange color and for being carved in October.
Cilantro	This herb has a peppery flavor and is used in Mexican cuisine.
Lavender	This purple flower is said to reduce stress and has a calming scent.
Honey	This sticky sweetener has the bees buzzing.
Strawberry	This is the only fruit that contains seeds on the outside.
Cucumber	This crop is often pickled.
Sweet Potato	This starch is orange in color.
Lettuce	This vegetable is grown in heads.
Orange	This is our state fruit.
Pea	This crop usually contains three of these in a pod.

Page 3—Punnett Squares

1. 4

2. 1

3. 2

4. 0

5. 2

Circle the traits that a farmer would desire: Disease Resistant, Drought Tolerant, Brightly Colored, Plump/Full

Page 4—

Garden: Small area of land, minimal equipment, small labor force, small yields

Commercial: Large area of land, Heavy equipment, Large labor force, High yields

Both Garden and Commercial: Soil testing, Produces safe crops, Irrigation, Planning/Preparation

Page 5: Triangles

1. 12 meters
2. 3 meters
3. 24 meters
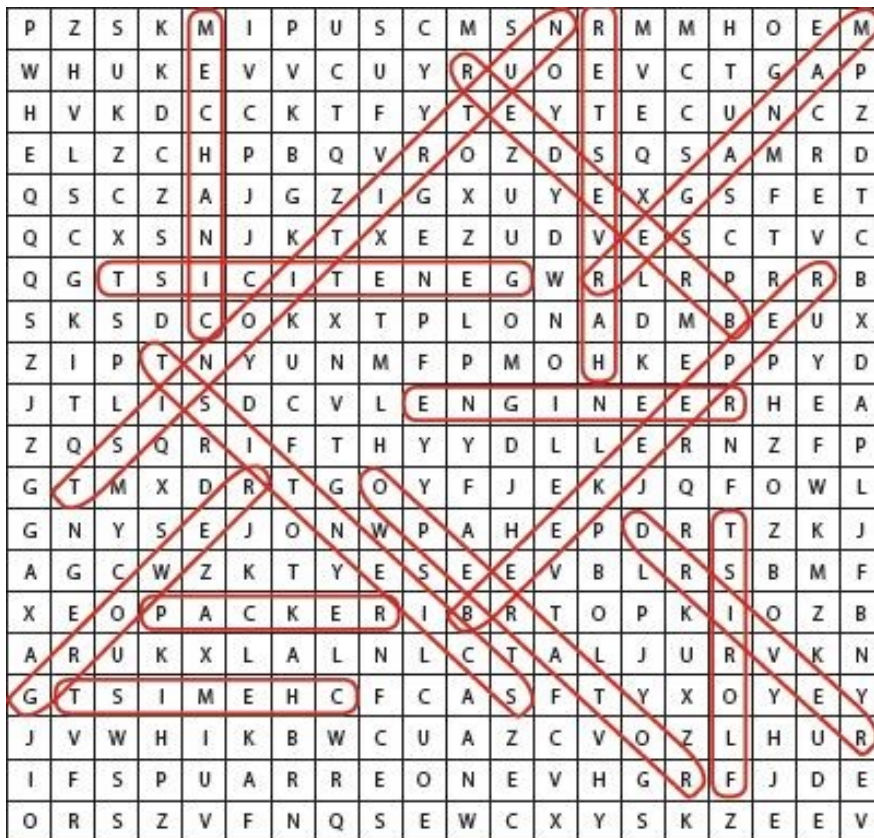4. 15 meters squared
5. 9 meters squared
6. 36 meters squared

Page 6: Area of Circles

1. 113.04 meters squared
2. 28.26 meters squared
3. 200.96 maters squared

Soil Textural Triangle Samples

1. Clay
2. Silty Loam
3. Loam
4. Sandy Loam
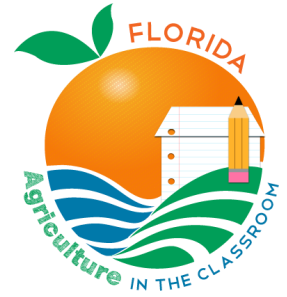
Page 7: Word search

Page 8:

Nation Nutrient Database Questions:

1. Spinach
2. Serving Size/ All products are raw
3. Broccoli
4. Bananas
5. Bananas
6. Fruit generally has more sugar than vegetables.
7. Fruit and vegetables vary in fiber, sugar, fat and protein. To get a balance, you have to eat a variety.

Student Survey Questions:

1. Class B
2. Class A
3. 17 students
4. Class A
5. (answers will vary) Class A reads more nutrition labels, maintains a healthier weight and exercises more than Class B
6. (answers will vary) Both classes could eat more vegetables and exercise more regularly
7. Answers will vary

The STEMming Up Healthy Eating Activity Newspaper covers the following Florida State Standards.

MAFS.6.EE.2.6	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.
MAFS.6.G.1.1	Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.
MAFS.7.G.2.6	Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.
MAFS.7.G.2.4	Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.
MAFS.7.SP.1.2	Use data from a random sample to draw inferences about a population with an unknown characteristic of interest.
SC.7.L.16.2	Determine the probabilities for genotype and phenotype combinations using Punnett Squares and pedigrees.
SC.7.L.16.4	Recognize and explore the impact of biotechnology (cloning, genetic engineering, artificial selection) on the individual, society and the environment.
MAFS.8.G.2.7	Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.