

# All Things Agriculture Answer Key & Standards



## Page 1: Crossword Puzzle



## Page 2:

Label the stages of a bean plant:

1. Seed	SC.2.L.16.1	Observe and describe major stages in the life cycles of plants and animals, including beans and butterflies.
2. Sprout		
3. Adult plant	SC.4.L.16.4	Compare and contrast the major stages in the life cycles of Florida plants and animals, such as those that undergo incomplete and complete metamorphosis, and flowering and nonflowering seed-bearing plants.
4. Flower		
5. Fruit		

Draw and label plant requirements:

Light: Sun, plant lamps

Moisture: Water, watering can

Air: Wind swirls

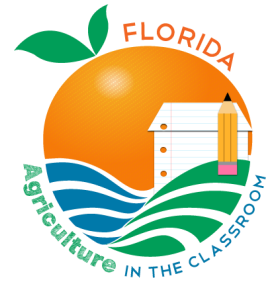
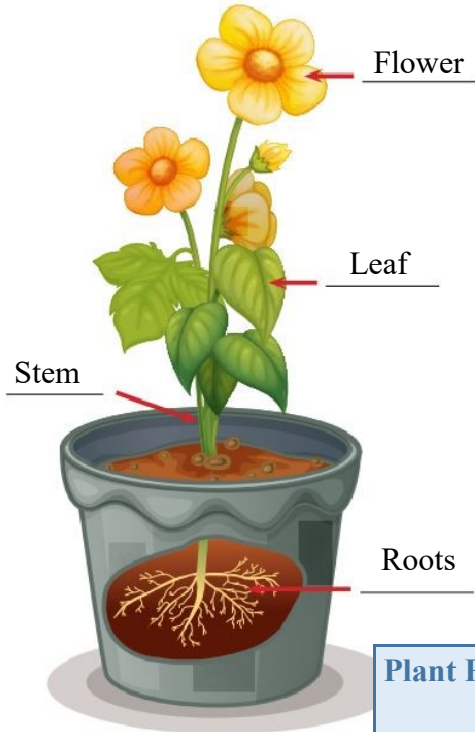
Nutrients: Bag of fertilizer

SC.3.L.17.2	Recognize that plants use energy from the Sun, air, and water to make their own food.
-------------	---

Fill in the paragraph blanks:

1. A seed needs **warmth, moisture** and **air** to germinate.
2. A seed should be planted **double** the width of the seed.
3. In order for the plant to grow, it needs **light, moisture, air** and **nutrients**.
4. It is important to consider **plant spacing, water requirements, light requirements** and **harvest times** when planting seeds.

Label the parts of the plant.



Plant Part	Function
Leaf	Supports the plant and transports water and nutrients.
Flower	Function
Stem	Anchors the plant while bringing it nutrients and water.
Root	Allows for pollination and contains the plants reproductive parts.
	Conducts photosynthesis for the plant.

1. EV A E L S \_Leaves\_
  2. T S E M \_Stem\_
  3. S O O R T \_Roots\_
  4. O F W E L R \_Flower\_
- Broccoli  
Asparagus  
Spinach  
Beets

SC.3.L.14.1 Describe structures in plants and their roles in food production, support, water and nutrient transport, and reproduction.

5. A fruit contains seeds. ☒ True ☐ False
6. Vegetables can be leaves, flowers, stems or roots. ☒ True ☐ False
7. Fruits and vegetables are a part of a balanced diet. ☒ True ☐ False
8. Spinach and cabbage are considered roots. ☐ True ☒ False

SC.3.L.15.2

Classify flowering and nonflowering plants into major groups such as those that produce seeds, or those like ferns and mosses that produce spores, according to their physical characteristics.

Page 4:

Drawing water as a solid: Ice cube, snow

Drawing water as a liquid: waterfall, glass of water, stream

Drawing water as a gas: water vapor, steam, clouds

Circle the four oceans: Pacific, Atlantic, Indian, Arctic

Match the vocabulary word to its definition.



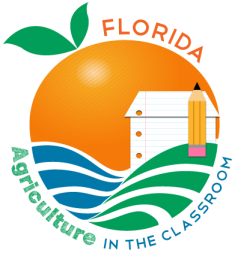
- SC.5.E.7.1 Create a model to explain the parts of the water cycle. Water can be a gas, a liquid, or a solid and can go back and forth from one state to another.
- SC.5.E.7.2 Recognize that the ocean is an integral part of the water cycle and is connected to all of Earth's water reservoirs via evaporation and precipitation processes.

Page 5:

Vocabulary Word	A useful or valuable thing, person or quality
Investment	Definition
Profit	A chance of loss or harm
Asset	A financial gain
Risk	The action of setting aside assets for profit

Product	Cost of seed packet	Yield	Price per unit	Income (price per unit x yield)	Net Income (income - cost of seed)
Cucumber	\$2.00	20 cucumbers	\$1.00	\$20.00	\$18.00
Radish	\$1.00	50 radishes	\$0.50	\$25.00	\$24.00
Tomatoes	\$3.00	30 tomatoes	\$1.00	\$30.00	\$27.00
Cabbage	\$1.00	20 heads of cabbage	\$2.00	\$40.00	\$39.00

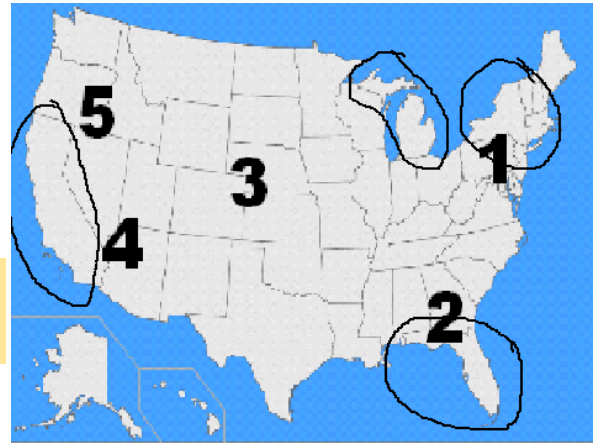
- SS.3.E.1.3 Recognize that buyers and sellers interact to exchange goods and services through the use of trade or money.
- SS.4.FL.1.6 Describe ways that people who own a business can earn a profit, which is a source of income.
- SS.4.FL.5.2 Explain that a financial investment is the purchase of a financial asset such as a stock with the expectation of an increase in the value of the asset and/or increase in future income.
- SS.4.FL.6.1 Explain that risk is the chance of loss or harm.
- SS.4.FL.5.2 Explain that a financial investment is the purchase of a financial asset such as a stock with the expectation of an increase in the value of the asset and/or increase in future income.



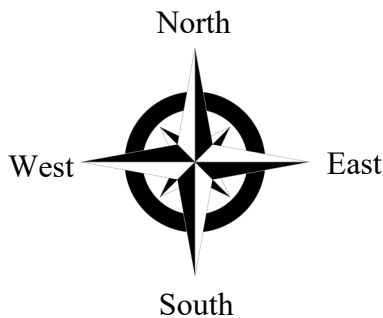
### Circle these States:

California, Michigan, New York and Florida

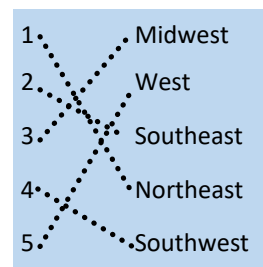
SS.3.G.2.3 Label the states in each of the five regions of the United States.



### Label the compass rose.



Draw a line from the number on the map to the correct region.



SS.3.G.1.2 Review basic map elements (coordinate grid, cardinal and intermediate directions, title, compass rose, scale, key/legend with symbols) .

SS.3.G.2.2 Identify the five regions of the United States.(i.e., Northeast, Southeast, Midwest, Southwest, West)

Page 6:

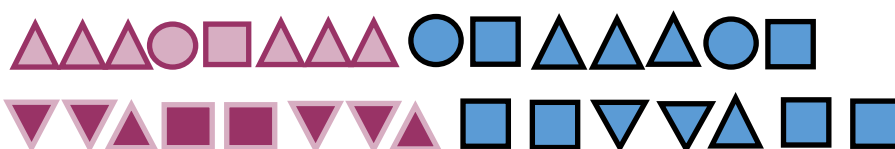
### Essay comparing and contrasting the two farms:

Farm on the left: Growing plants, indoors, plants are a source of food, large scale, occurs across the nation

Farm on the right: Cattle production, cows producing milk, could be large or small scale, milk is a source of nutrients, outdoor and indoor operation, occurs across the nation

LAFS.3.RI.3.7 Use information gained from illustrations (e.g., maps, photographs) and the words in a text to demonstrate understanding of the text (e.g., where, when, why, and how key events occur).

### Complete the following patterns:



MAFS.4.OA.3.5 Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself.

### Garden bed questions:

1. 32 ft<sup>2</sup>
2. 30 ft<sup>2</sup>
3. 52 ft<sup>2</sup>
4. 24 ft
5. 26 ft
6. 34 ft
7. 272 ft<sup>2</sup>
8. 66 ft<sup>2</sup>

MAFS.4.MD.1.3

Apply the area and perimeter formulas for rectangles in real world and mathematical problems.

MAFS.3.NBT.1.2

Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.

### Page 7: Questions from the “Farmer Chris” scenario

1. 6 people
2. 53 minutes
3. 35 miles
4. 40 miles
5. 59 minutes
6. \$96.00
7. \$384.00
8. \$48.00
9. \$128.00
10. Various answers (vegetables, fruit, jam, flowers, cheese, bread)

MAFS.4.MD.1.2

Use the four operations to solve word problems involving distances, intervals of time, and money, including problems involving simple fractions or

MAFS.3.NBT.1.2

Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.

### Careers in Agriculture Crossword Puzzle

Down:

1. Mechanic
2. Scientist
3. Farmer
4. Florist
6. Welder

Across:

5. Harvester
7. Beekeeper
8. Veterinarian
9. Teacher

