



Math



Literacy

AG-VENTURE WITH SOYBEANS

Use the IAITC Soybean Ag Mag to help you work through this worksheet!

One bushel of soybeans weighs 60 pounds and provides:	
11 lbs. of crude soybean oil	47 lbs. of soybean meal
<i>Crude soybean oil is used for human consumption and consumer and industrial products.</i>	<i>Soybean meal is used for livestock feed.</i>

How many pounds of soybeans would you need to make 44 lbs. of crude soybean oil?

Your livestock is hungry! How many pounds of soybeans would it take to make 235 lbs. of soybean meal for your livestock?

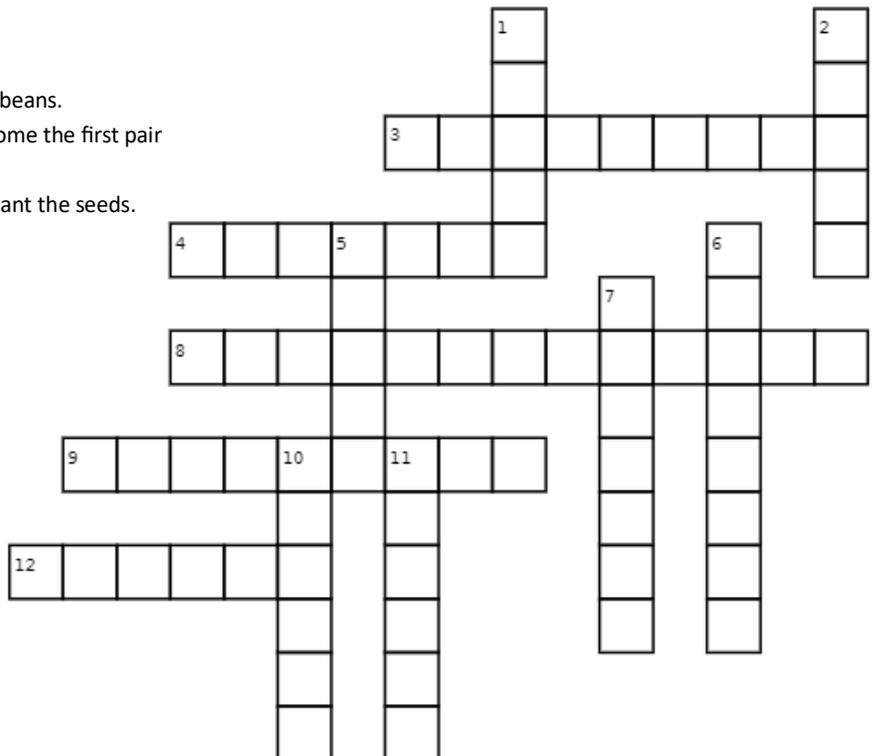
Read the section titled "Technology and Drones." Using examples from your reading, explain how technology is beneficial for agriculture and farming.

Across:

- A renewable fuel made from soybeans.
- The seed of the soybean plant.
- He discovered a method of extracting oil from soybeans.
- The first food source for the soybean and will become the first pair of leaves.
- The season when farmers prepare the soil and plant the seeds.

Down:

- The color of soybean plants when they are ready for harvest in the fall.
- The brown spot that allows water into the seed coat.
- Carries soybeans and other ag products down navigable waterways.
- During this event, soybeans were used to brew a hot drink for soldiers.
- When farmers use machinery to collect the beans from the fields in the fall.
- The scientific family that soybeans belong to.
- A type of technology that allows farmers to survey their fields.



TEACHER RESOURCES

ANSWER KEY

One bushel of soybeans weighs 60 pounds and provides:
 11 lbs. of crude soybean oil 47 lbs. of soybean meal
Crude soybean oil is used for human consumption and consumer and industrial products. *Soybean meal is used for livestock feed.*

How many pounds of soybeans would you need to make 44 lbs. of crude soybean oil?

$$44 \div 11 = 4 \text{ bushels}$$

$$4 \times 60 = 240 \text{ lbs. of soybeans}$$

Your livestock is hungry! How many pounds of soybeans would it take to make 235 lbs. of soybean meal for your livestock?

$$235 \div 47 = 5 \text{ bushels}$$

$$5 \times 60 = 300 \text{ lbs. of soybeans}$$

Read the section titled "Technology and Drones." Using examples from your reading, explain how technology is beneficial for agriculture and farming.

Answers will vary. New technologies, like Blockchain, allow a faster and more protected transaction of agriculture products. UAVs are beneficial for farmers to survey their land to analyze and map the terrain, flood zones, and even analyze the health of their crop. Finally, biotechnology, like selective breeding, is beneficial for agriculture because it can help plants thrive in less than ideal conditions, allowing us to continue to grow enough food.

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