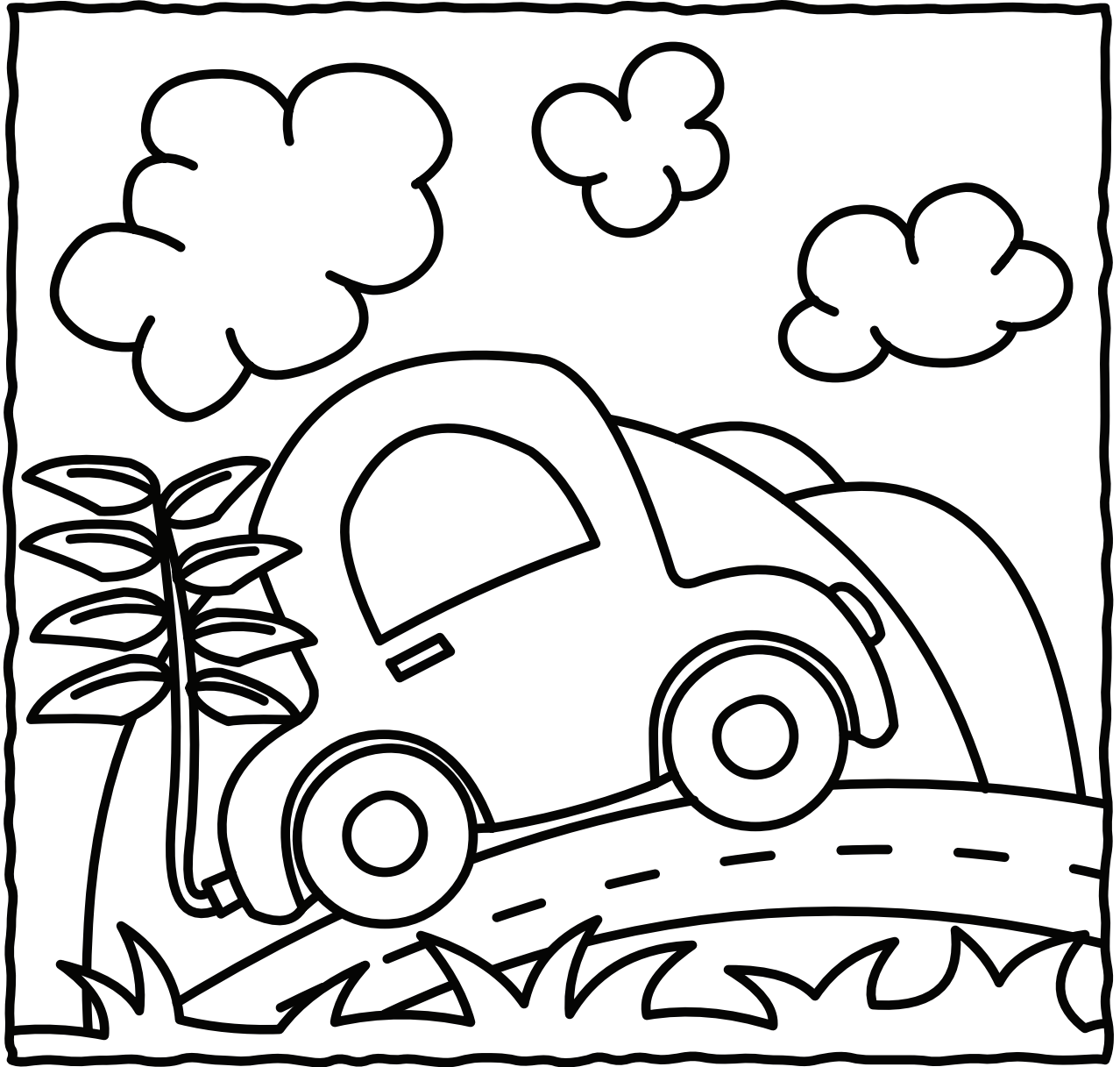


FUEL YOUR FUTURE

Ethanol Activity Book



Let's learn about ethanol!



Did you know many vehicles get their power from plants?
The power comes from a fuel called ethanol!

Ethanol is a clean-burning, renewable fuel made from sugars found in plants. It is blended with gasoline to create less pollution and to keep our air clean.

NLOEHAT

— — — — —

AELNC

— — — — —

RIA

— — —

ENEWRBLEA

— — — — —

LUFE

— — — —

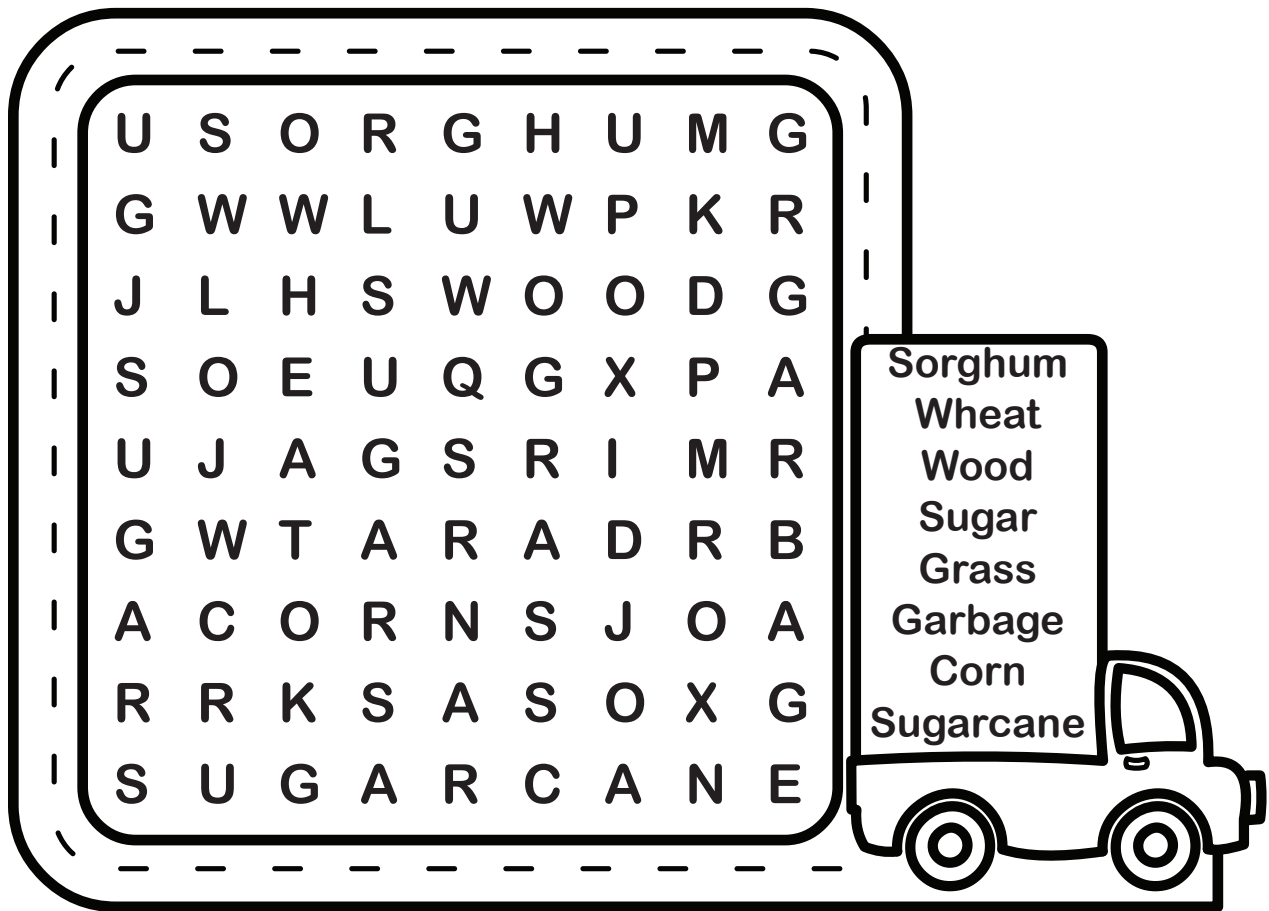
Unscramble the words above.

Hint - all of the words can be found on this page!

How is ethanol made?

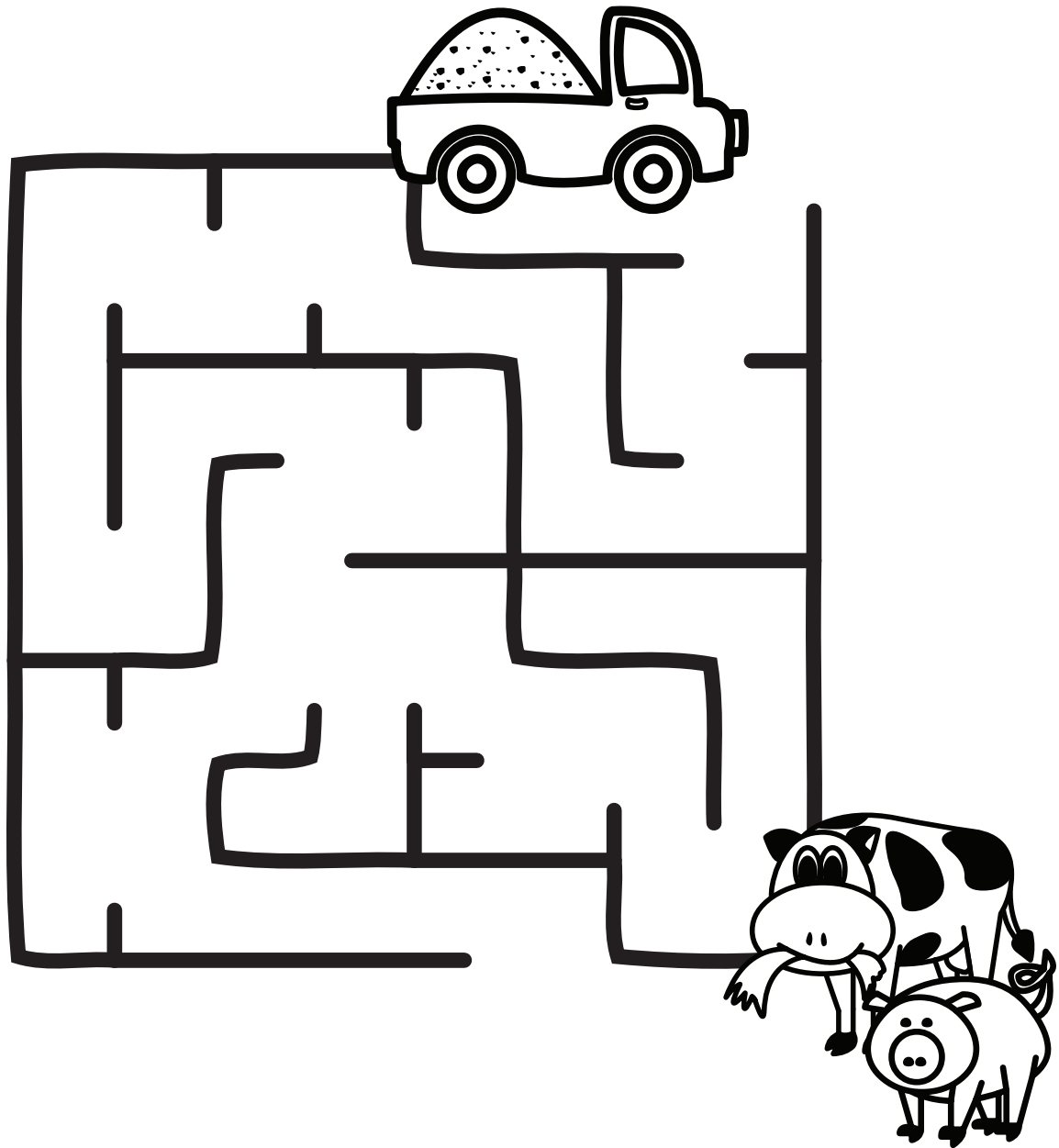
Ethanol can be made from many different things. The most common is corn and sorghum, but other options include wheat, sugarcane, grass, wood waste, cheese whey, potato waste and even garbage!

Find the words.



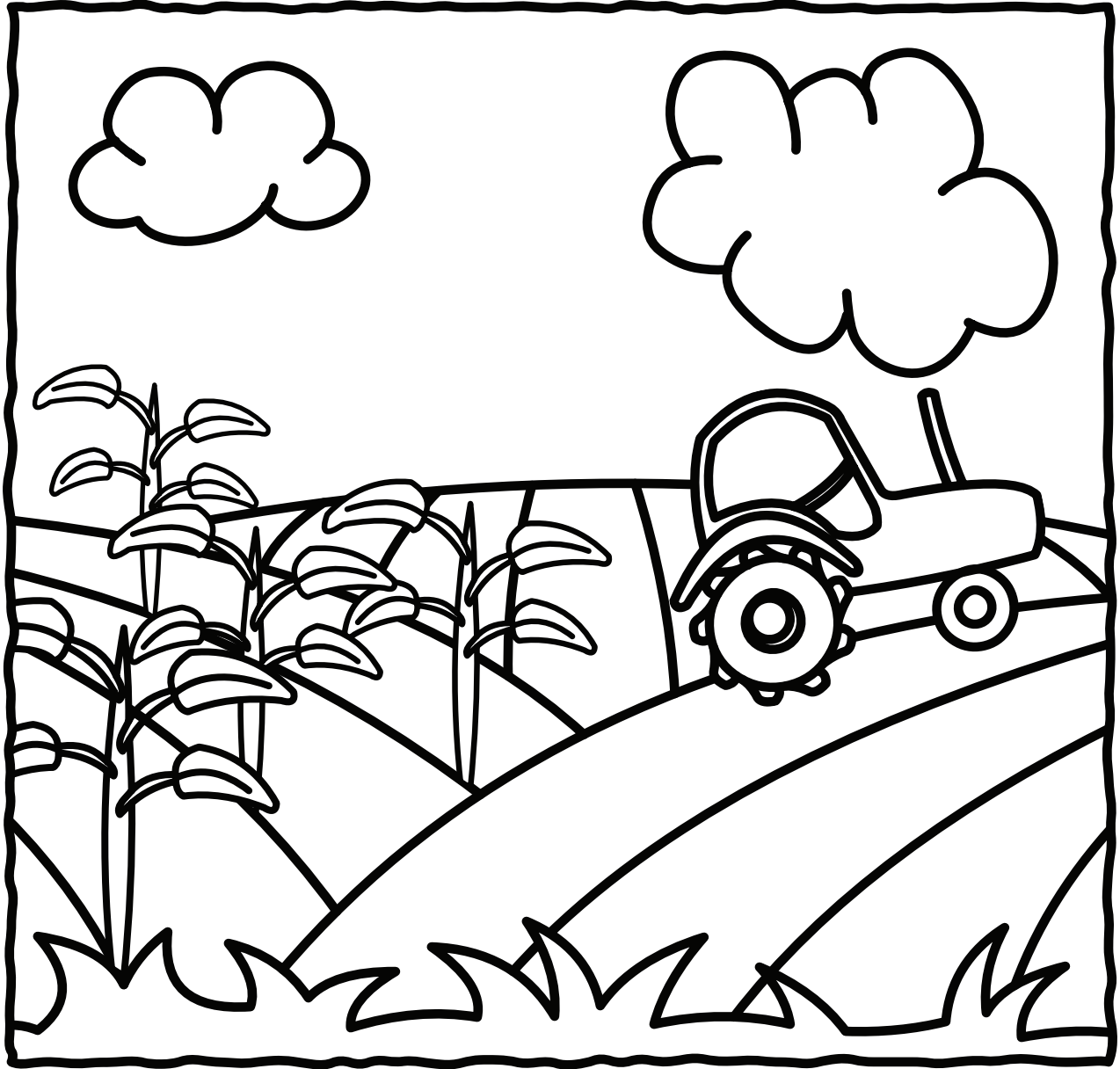
Find and circle the renewable resources listed in the back of the truck.

Did you know you can have food and fuel? More than 98% of U.S. ethanol is made from grains, such as corn and sorghum. This process creates both fuel and livestock feed. One-third of the grain used to make ethanol is returned back to the market in the form of livestock feed.

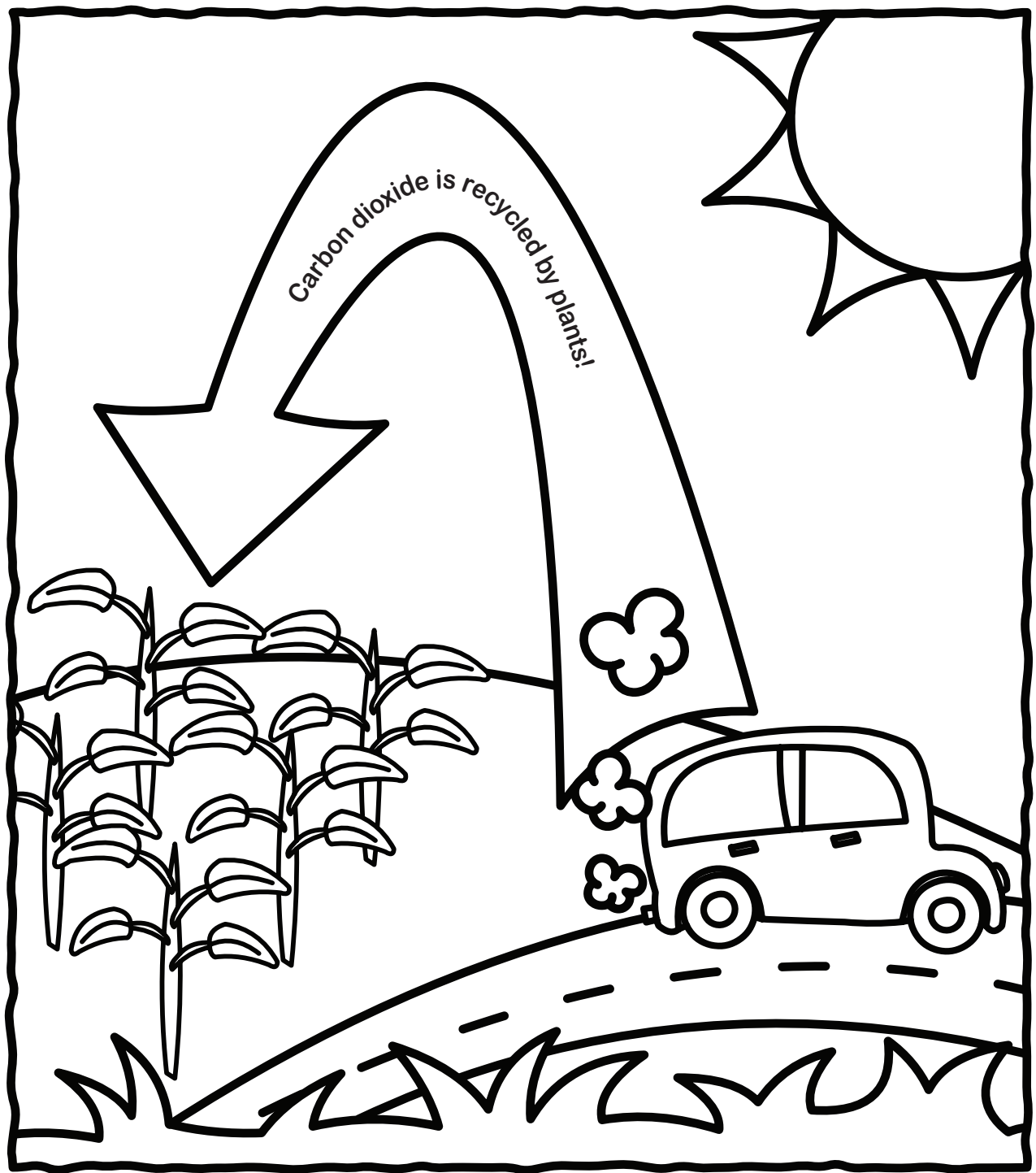


Help feed the farm animals by returning the truck.

How is ethanol good for the environment?



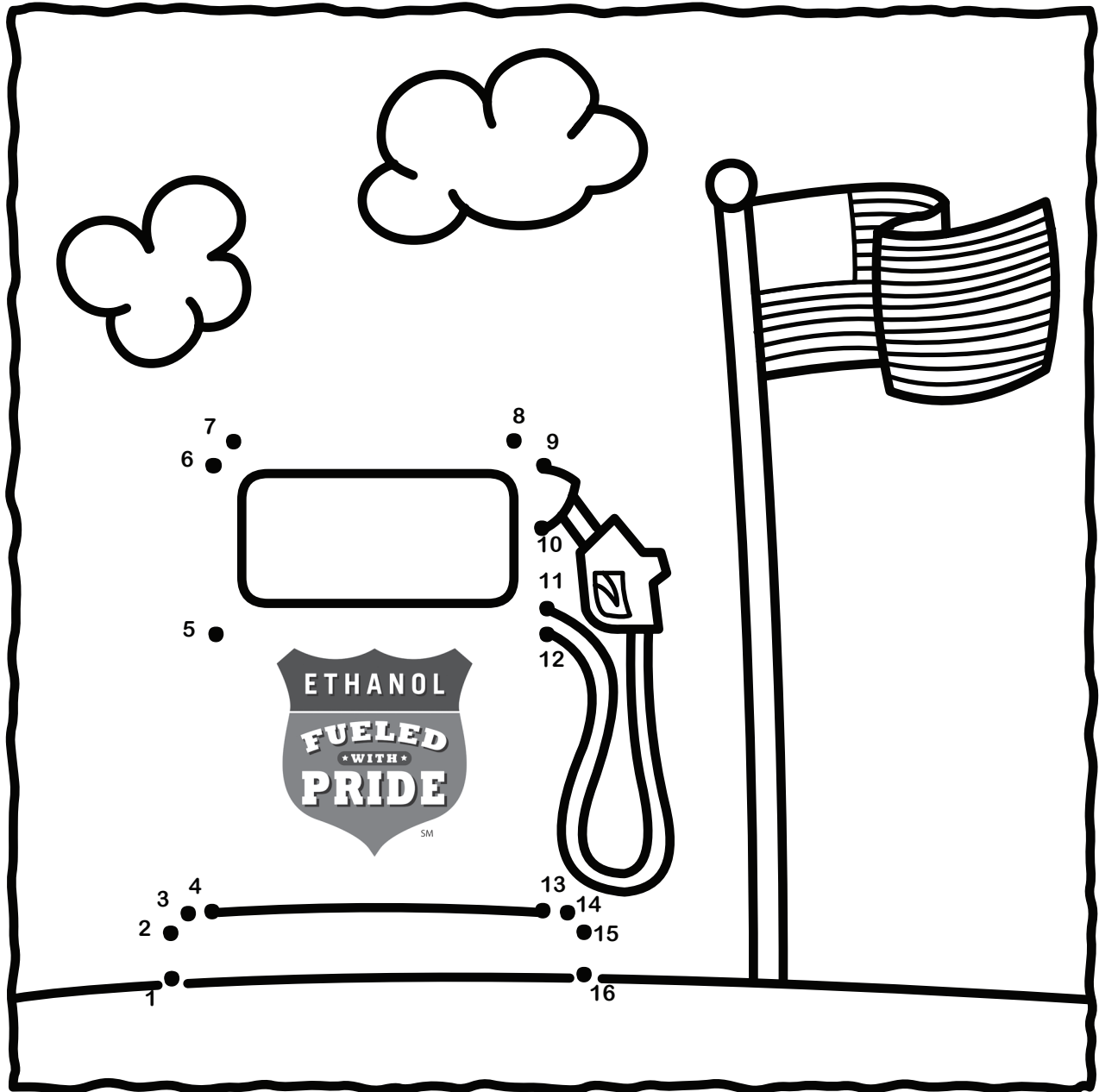
Unlike oil used to make gasoline, the plants used to make ethanol are a renewable resource, which means they can be replaced. When plants are used to create ethanol, new ones are planted in their place!



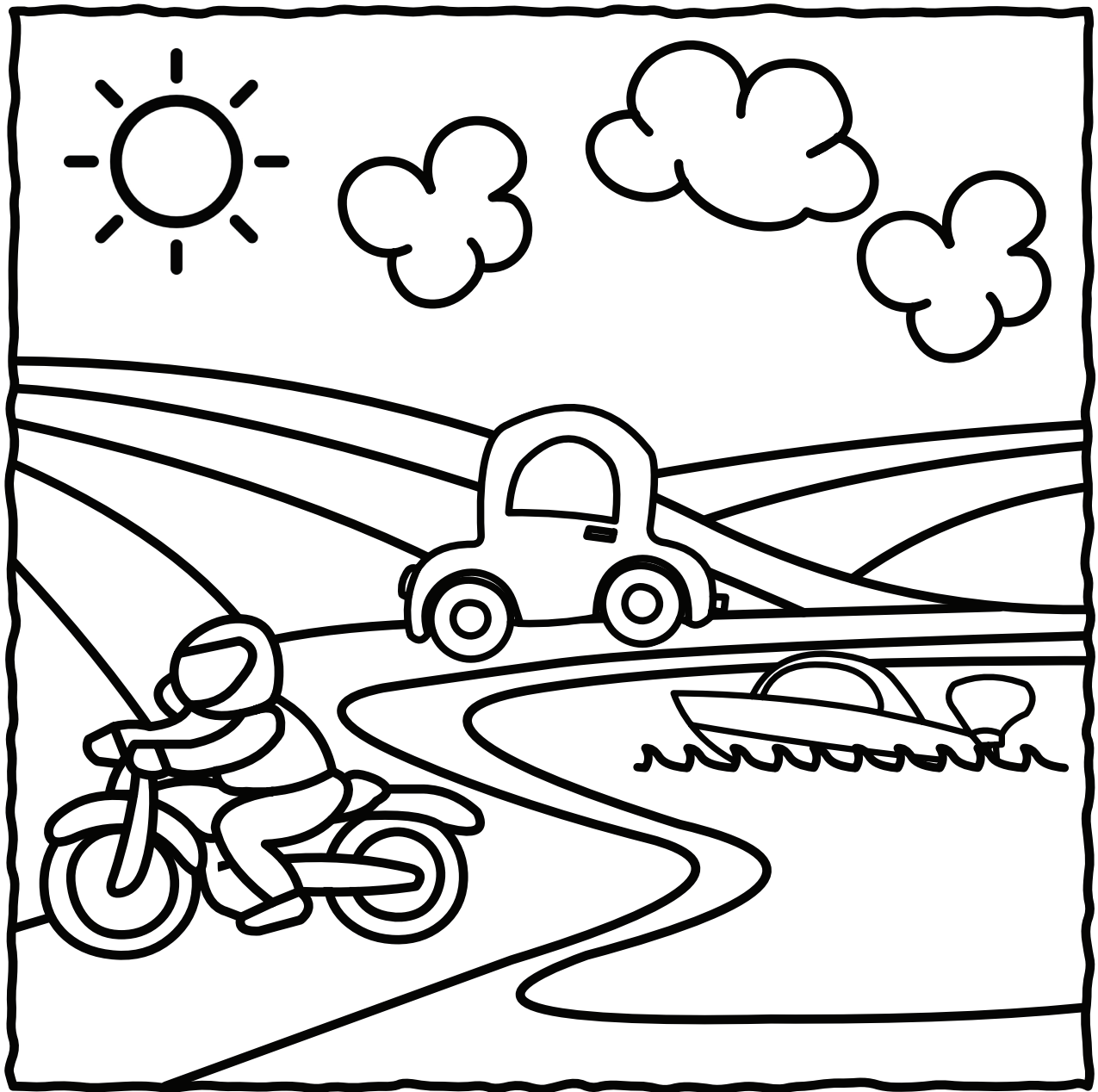
Ethanol helps keep our air clean. Fuel blended with ethanol burns cleaner and gives off less pollutants than gasoline. Also, the plants used to make ethanol use up carbon dioxide when they grow, and this helps reduce global warming.

How is ethanol used?

Almost all fuel sold in the U.S. is blended with ethanol. Using ethanol blends is better for the environment and helps our country become energy independent!



Connect the dots to finish the picture.



Ethanol can be used in many types of engines. It can be used in cars, trucks, SUVs, motorcycles, snowmobiles, lawn mowers, ATVs and boats.

How many things can you find in the picture that can run on ethanol?

Ethanol Fun Facts!

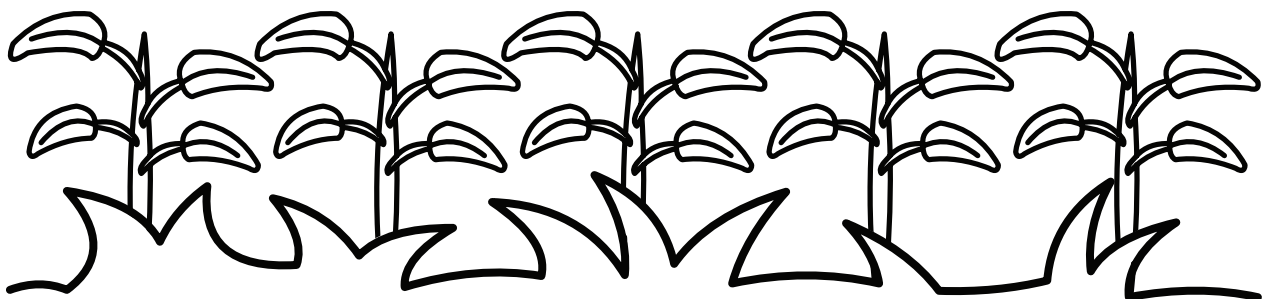
E15 is 15 percent ethanol and 85 percent gasoline. It is approved for cars, trucks and SUVs that are 2001 and newer. E15 lowers the cost of fuel which means more money for food and vacations.

E85 is an environmentally friendly alternative fuel that burns cleaner than gasoline. It's a blend of 85 percent ethanol and 15 percent gasoline and is designed for use in flex fuel vehicles only.

E10 is 10 percent ethanol and 90 percent gasoline and is approved for all engines.

The production of ethanol helps support over 350,000 jobs! Using ethanol creates jobs right here in the United States! It will grow our economy and create American jobs.

One bushel of corn, or 56 pounds, will produce about 3 gallons of ethanol, 17 pounds of livestock feed and 17 pounds of carbon dioxide. Proof that we can have food and fuel!



Using the chart below, decode the last fun fact by matching the number to the letter.

1	2	3	4	5	6	7	8	9
A	B	C	D	E	F	G	H	I

10	11	12	13	14	15	16	17	18
J	K	L	M	N	O	P	Q	R

19	20	21	22	23	24	25	26
S	T	U	V	W	X	Y	Z

Did you know ethanol has been used in automobiles since Henry Ford designed his 1908 Model T to operate on pure ethanol?

9 20 23 1 19 20 8 5

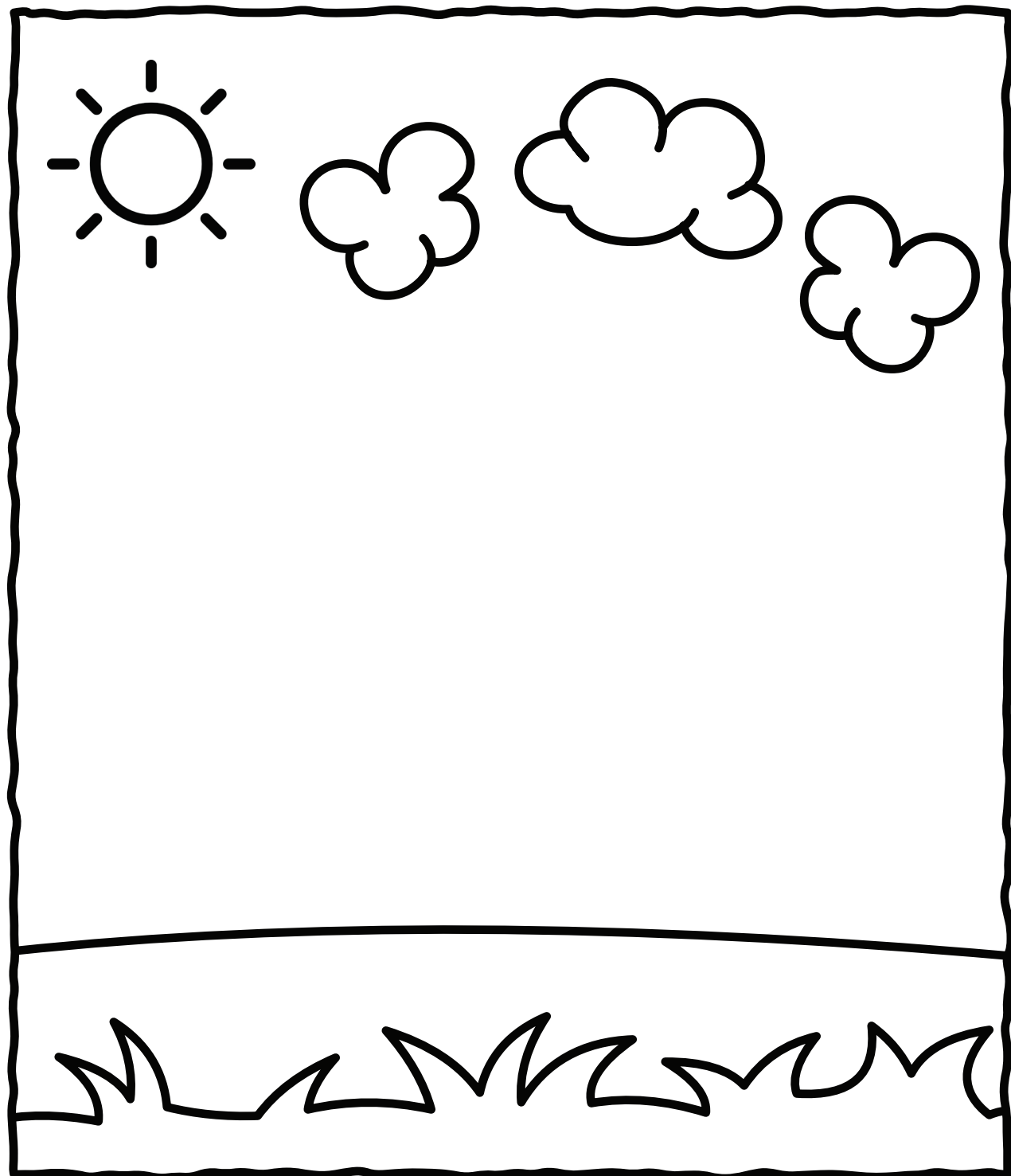
2 5 7 9 14 14 9 14 7 15 6

20 8 5 6 12 5 24 6 21 5 12

22 5 8 9 3 12 5

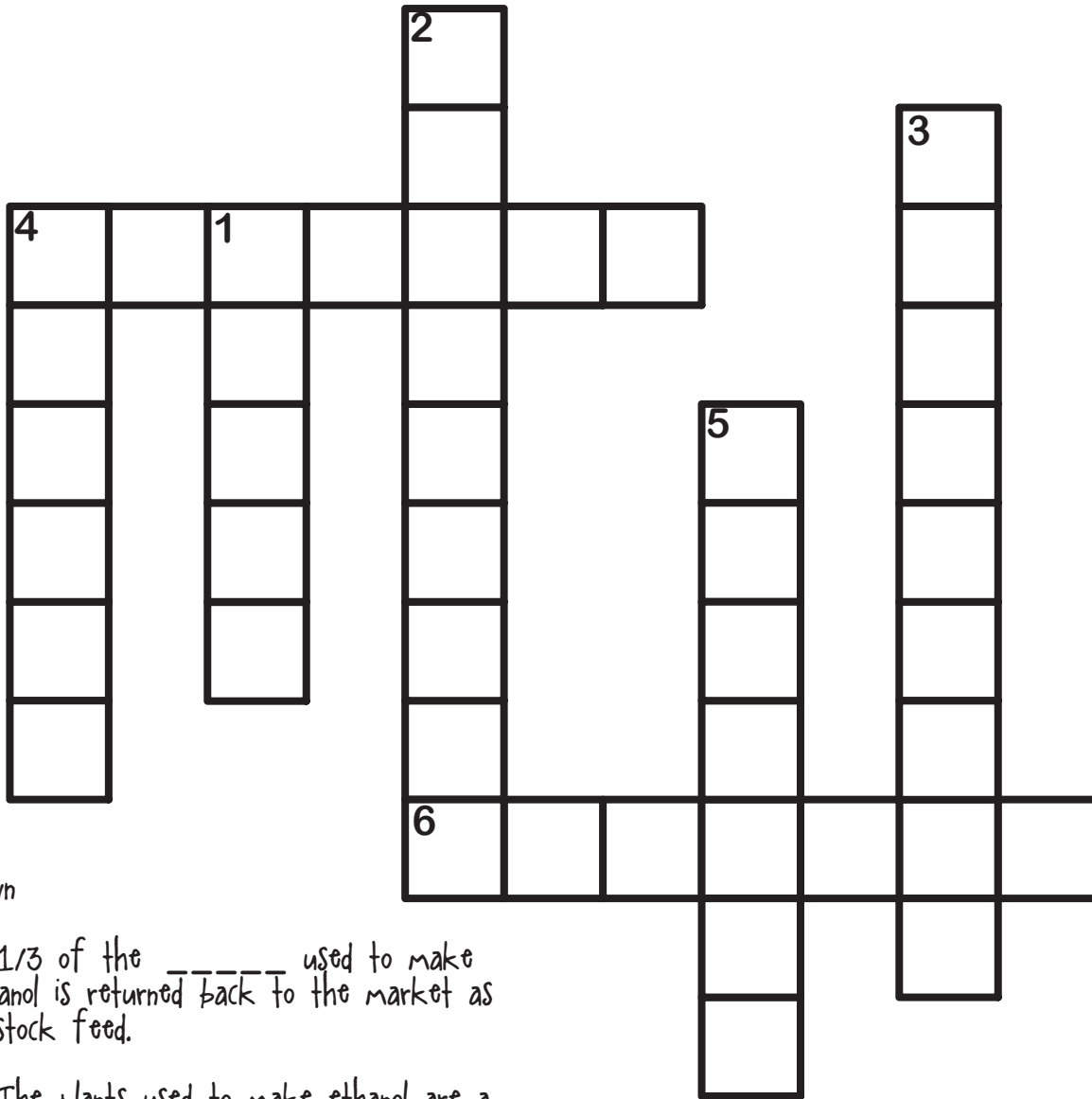
!

Flex fuel vehicles are designed to run on E85, but can run on regular gasoline or any ethanol blend in between! Design your own flex fuel vehicle in the space below.



How much did you learn?

Fill in the crossword puzzle below to see how much you learned about ethanol.



Down

1. 1/3 of the _____ used to make ethanol is returned back to the market as livestock feed.

2. The plants used to make ethanol are a _____ resource.

3. Ethanol is blended with gasoline to create less _____.

4. Ethanol helps our country become _____ independent.

5. Ethanol can be made from corn, grass, wood waste and even _____.

Across

4. Ethanol can be used in many types of _____.

6. _____ is a clean burning renewable fuel.

www.ChooseEthanol.com



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