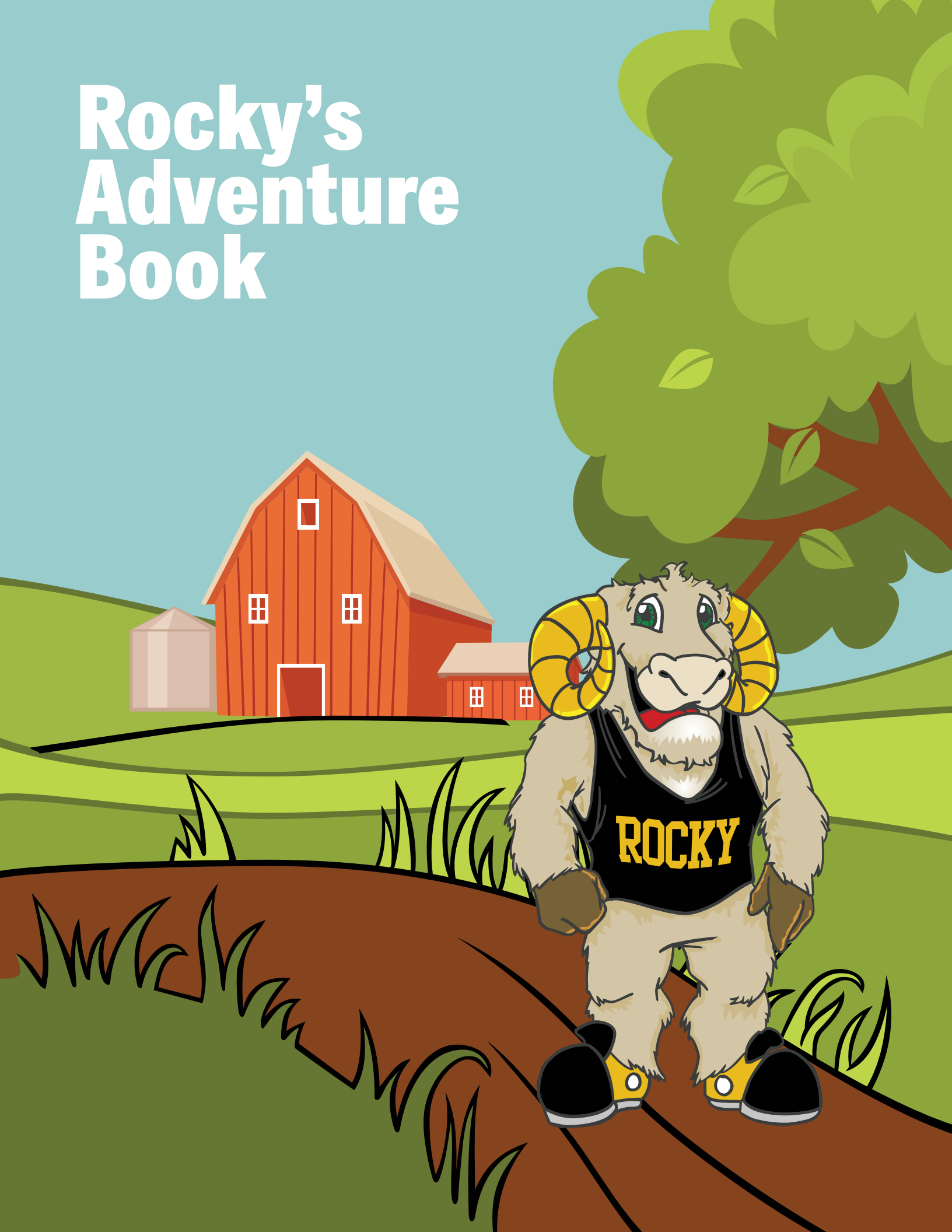
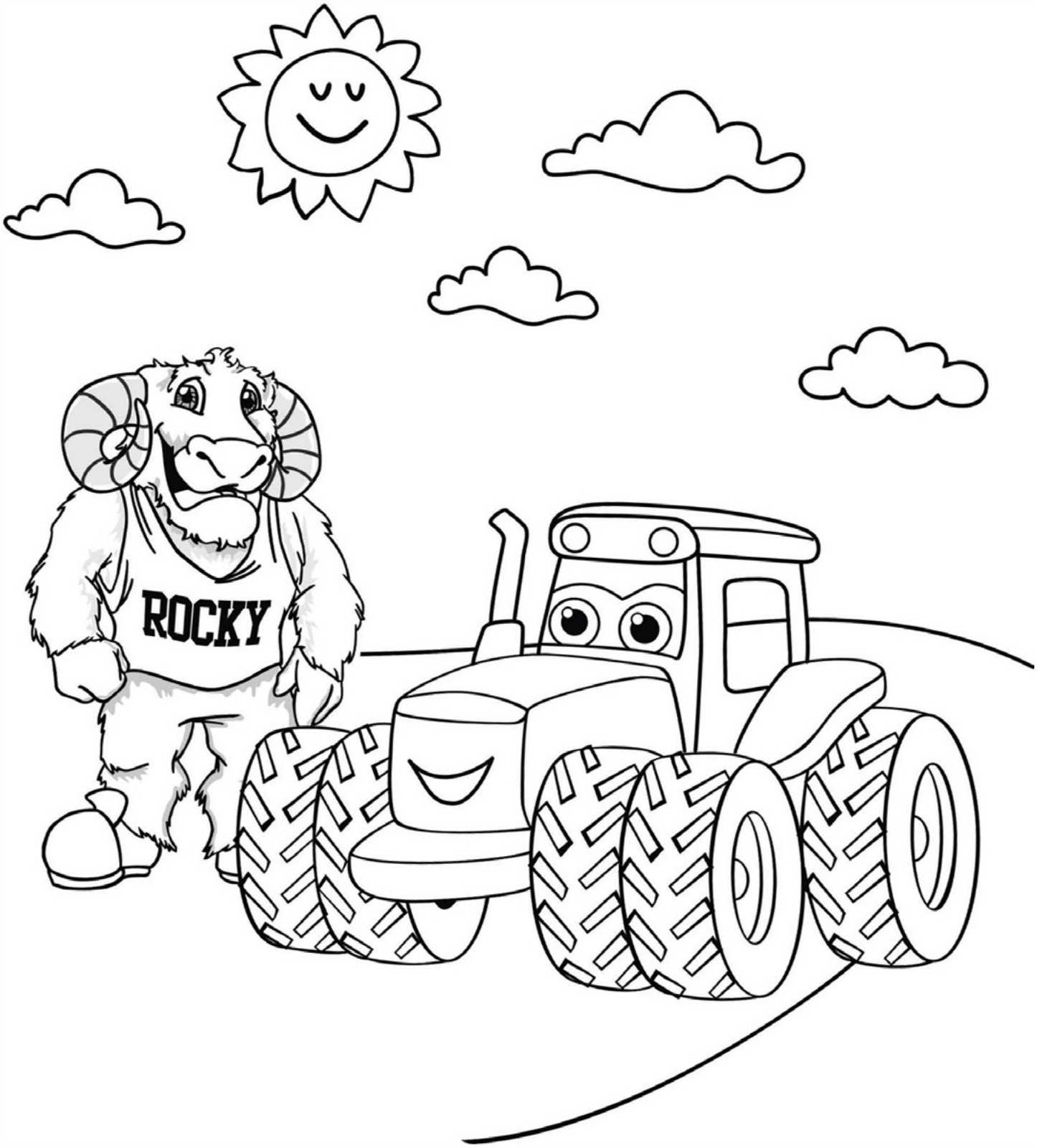
Rocky's Adventure Book



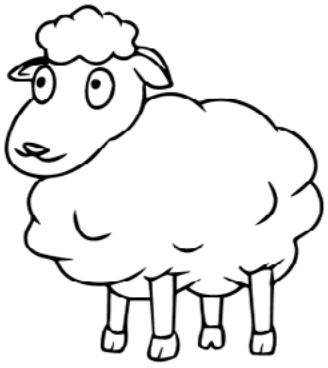


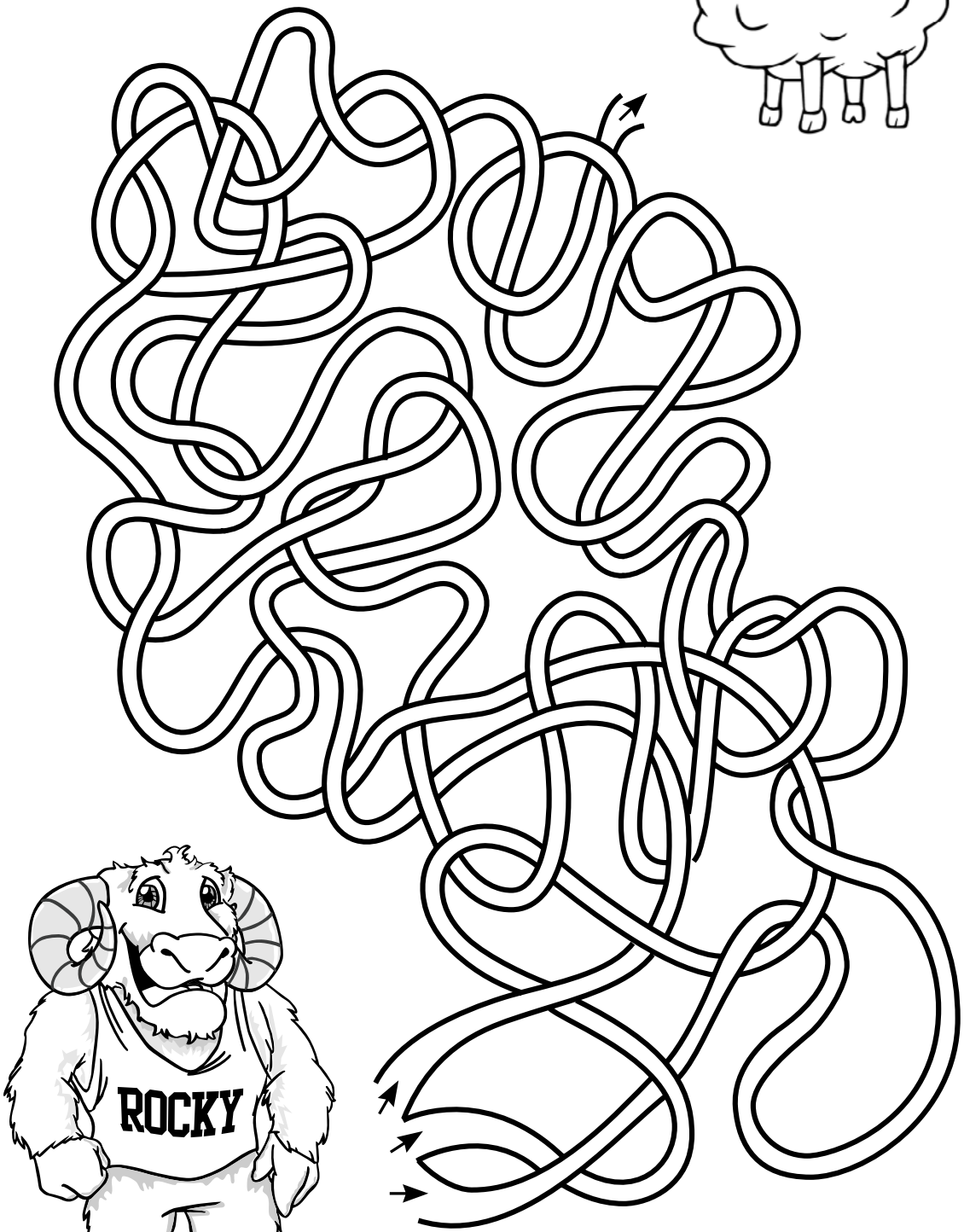
WELCOME MESSAGE:

Hi! My name is Rocky the Ram and I live at Dalhousie's Agricultural Campus! I wish I could welcome you all to campus for Community Day this year but instead I thought I would take you on an adventure. I can't wait to see you all again back on campus next year. I am excited to show you what agriculture means to me and the importance of agriculture in my community. I like to learn new things like how to grow my own food, help other animals, and where my favorite foods and drinks come from. I love to support my community by eating locally sourced food and helping farmers share their knowledge of growing delicious and nutritious food for us! I like to go on adventures all over our beautiful country to spread the word that agriculture is awesome! Come and join me on an adventure!


ROCKY

Help Rocky find his friend.





Rocky the Ram's Word Search

A G A R D E N G X F O O D B F
G T N H N X N P H Q X F A R M
R R K C O M P O S T X X R R I
I A E D U C A T I O N D J V N
C C A Q U A C U L T U R E B V
U T W J L C O W R H Z O S A R
L O T B C L J J V J A S X R L
T R T U Y R T J D J P L A N T
U N C S V M O B V A G P B Z P
R S H I E N G I N E E R I N G
E H I N T P L C Y Y U A G E Z
R E C E S C I E N C E G A S F
A E K S X I O M Y M W G S O W
M P E S N G K A Q U Q I V I M
B Z N R O C K Y Q A E E A L L

aquaculture	agriculture	engineering	education
business	science	tractor	compost
garden	rocky	chicken	plant
farm	soil	food	cow
sheep	aggie	barn	ram

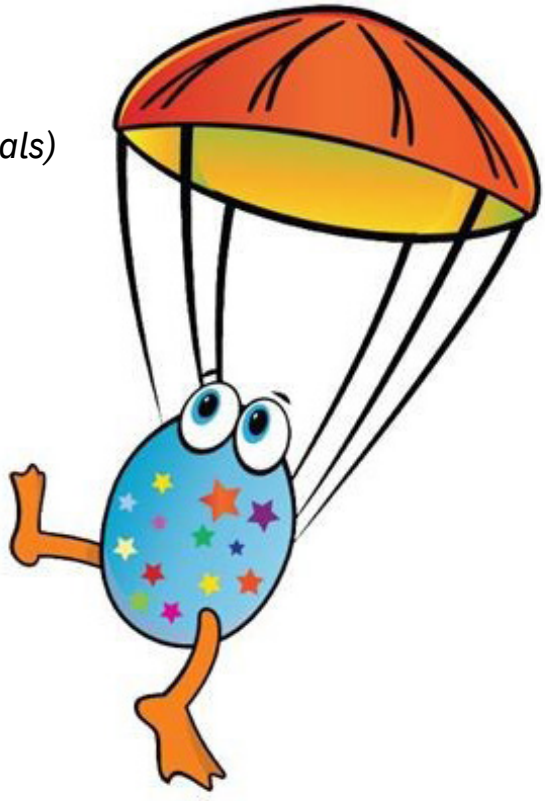
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Egg Drop Challenge

Materials needed (feel free to substitute materials)



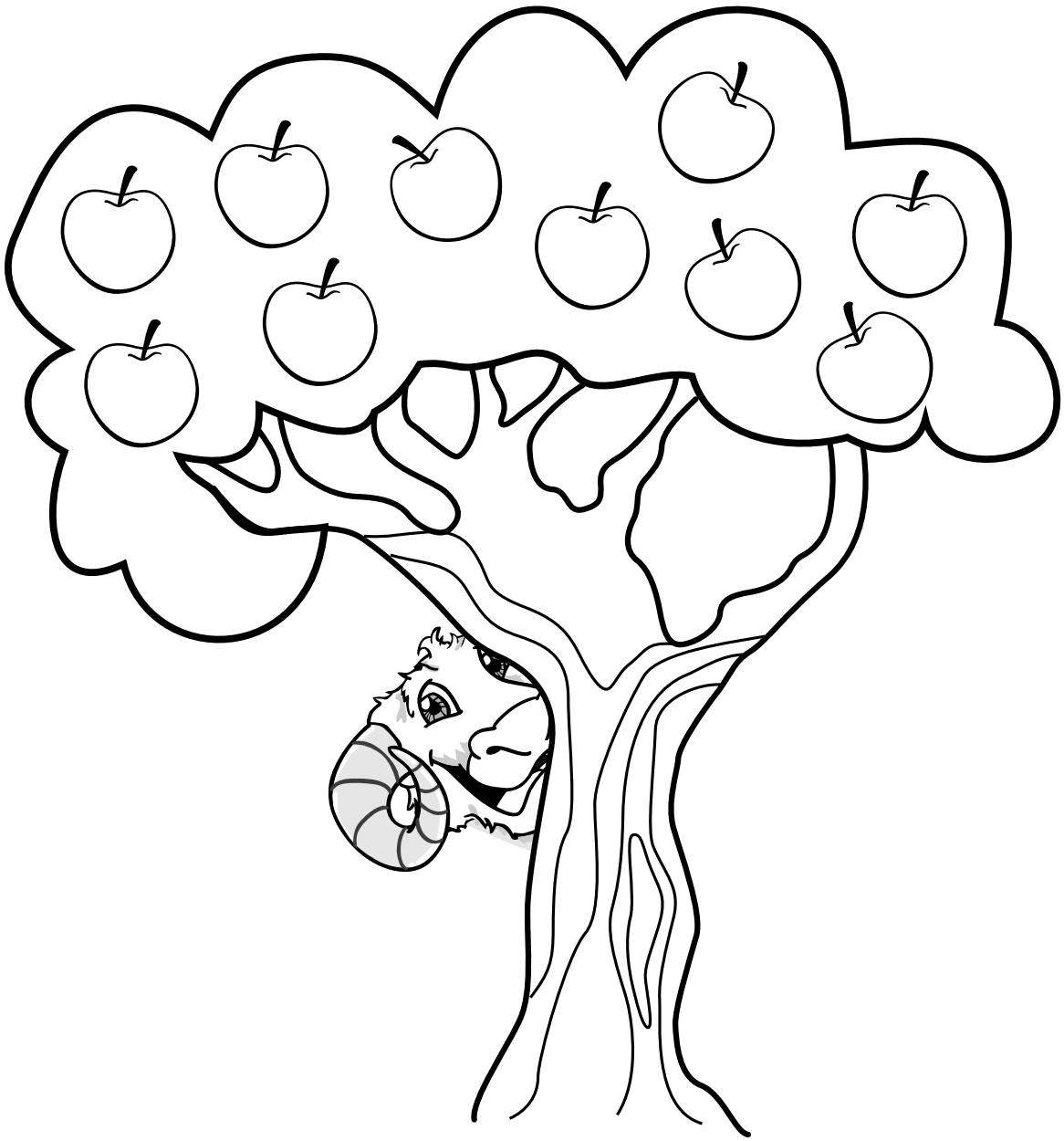
- Egg
- Tape (scotch or masking)
- String
- Elastic bands (only a few)
- Balloon (one per egg)
- Plastic straws
- Popsicle sticks

Task

Build a structure around your egg using the materials above. You don't need to use all of them, be creative. All designs are welcome!

Once you're finished ask an adult to stand on a sturdy chair and drop (don't throw) your egg and check to see if it breaks!

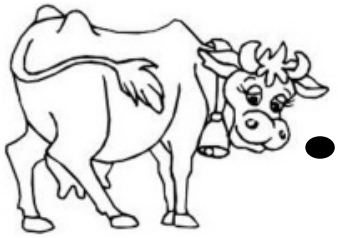
If your egg is still intact congratulations!
If not, try again!



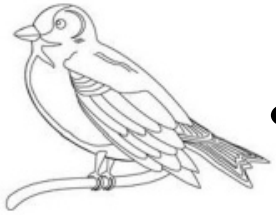
Rocky loves apples. How many apples are in the tree? _____

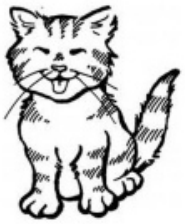
Are you my mother?

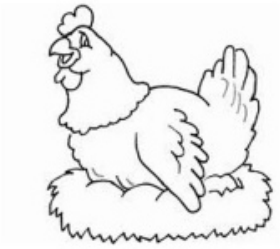
Draw a line matching mom to baby.





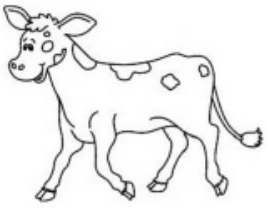


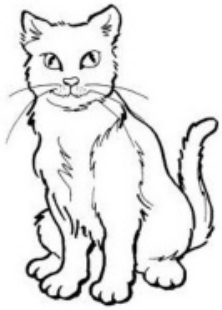


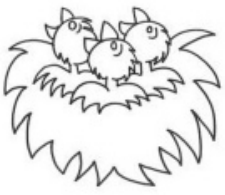














Make your own butter!



Instructions

- Add about 10 ml of cool 35% whipping cream to a small jar (baby food sized or smaller) *(*note the colder the cream the faster it will turn to butter)*
- Make sure the jar has a tight lid and that it is secured well. You may want to put a napkin or paper towel over the top in case of leaks.
- Have the child shake the container for several minutes.
- Stop shaking periodically and check the jar frequently to see the changes in the liquid cream. First it will turn to whipped cream, and then separate into a yellow ball of butter and watery buttermilk.
- Once the cream has turned to a butter ball and buttermilk, the jar can be carefully opened.
- Pour the buttermilk into another container. The buttermilk can be drank if desired (some children may not enjoy the taste of buttermilk).
- The butter ball will usually stick to the side of the jar and can be removed with a knife or spoon. The butter is best when sampled on a salted cracker. Salted crackers are preferred, as most people are accustomed to store bought butter which is usually flavoured with salt.

Story Time with Rocky

Fill in the blanks to complete the story!
Hint: Check out the word bank!

Hi everyone! My name is _____ ___ ___ and I live at the _____ _____ _____ . On the weekend I love to go on adventures into the _____! My home is located in _____ ____ , Nova Scotia. It is a wonderful place filled with so many fun things to do and explore. On Saturday mornings, I enjoy riding my ____ to the _____ _____ _____ to grab a quick breakfast. After enjoying a very tasty smoothie, I always go for a long scenic ____ in _____ ____ to see the waterfalls. After such a busy day, I need some rest so I better head back to the campus. Thank you all for joining me on my exploration. I had such a great day exploring the ___ of Nova Scotia. Hopefully you can all join me on my next _____!

Word Bank:

COMMUNITY	ROCKY THE RAM
BIBLE HILL	HIKE
ADVENTURE	TRURO FARMERS MARKET
HUB	VICTORIA PARK
BIKE	DALHOUSIE AGRICULTURAL CAMPUS

Biogas Experiment using Compost!

This experiment is used with permission from Clearway Community Solar.

(https://www.clearwaycommunitysolar.com/blog/science-center-home-experiments-for-kids/creating-biogas-from-your-pantry/)

Did you know that compost has the ability to create energy?

When organic matter (plant and animal residue including manure!) begin to break down two gases are created: carbon dioxide and methane. These gases are called biogas and are a source of renewable energy which can be used to generate electricity! In this simple experiment you can use left over food waste to try and create your own biogas!

Experiment Materials:

- plastic bottles (min. 8 oz each) (1 for each material being tested)
- small bowls/containers (1 for each material being tested)
- tape
- marker
- pouring funnel
- Balloons
- small blender or food processor
- ½-1 cup of different sources to make biogas (compost, different fruits/veggies).
- water

continued on next page



Biogas Experiment using Compost!

Experiment Procedure:

Step 1

Take empty plastic bottles (clean) and label each one according to your biogas inputs. Also, on each bottle, mark a water line ¾ of the way up the bottle. Be consistent for the water line so all bottles are the same.



Step 2

Gather all your inputs. We used the following foods to test the experiment: left over cooked veggies, lettuce, banana, cheese/tomato sandwich, orange, and Nuri-wave pellets (pelleted chicken manure that is dry and has been heat-treated to kill pathogens).



Step 3

Puree each of the food items separately in the blender or food processor, and place the pureed food back into their orginal bowls (you may need to add water during the pureeing process). Make sure you clean out the blender in between each food item.



Step 4

Place each of the pureed inputs into their corresponding bottles (labelled in Step 1). If needed you can add water in order to pour the foodstuffs into your bottle. Afterwards, fill each bottle with water up to the water line. You may need a funnel to complete this step.



Step 5

Place a balloon on the top of each bottle and secure it with tape to make sure no oxygen gets into the bottle.



Step 6

Place all of the bottles in the same place and observe for the next week. The first picture below is 3 days after starting the experiment, in order of the most gas (banana, orange, sandwich, lettuce, Nutri-wave and leftovers) and 7 days afterwards (orange, sandwich, banana, Nutri-wave, leftovers and lettuce).





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