

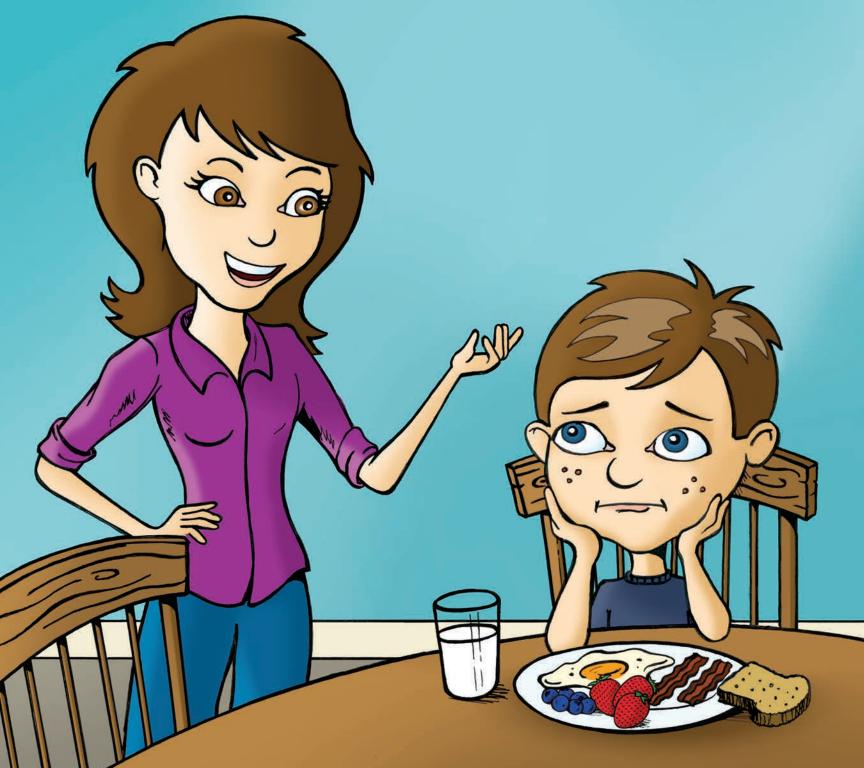
Reggie sat at the breakfast table with his head rested on his hands when his mom entered the kitchen.

"What's the matter Reggie? Is there something bothering you?" she asked.

"I have to do a project for school and I don't want to do it," Reggie said.

"That's not like you, Reggie. Why don't you want to do it?" Mom asked.







"Ms. Smith put a bunch of different projects in a box for us to pick from and I got the worst one ever!"

Reggie exclaimed.

"Tommy picked out dinosaurs, Tyler picked out how volcanoes work, and I got technology in agriculture! Mom, there's no technology in agriculture. You grow fruits and veggies or you milk cows. I want to ask Ms. Smith if I can do something different."

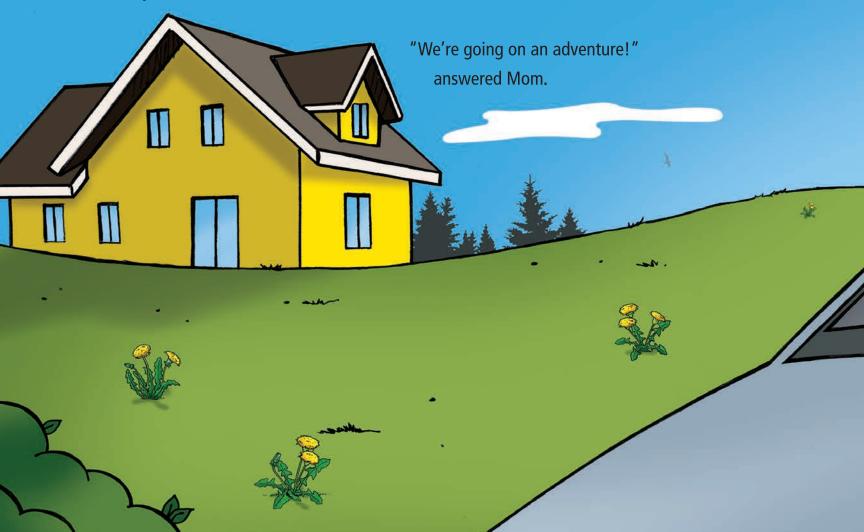
"Reggie, come on and eat your breakfast; your bus will be here soon. Don't ask your teacher for a new project, think about it over the weekend first," Mom said.



Saturday morning, Mom woke Reggie earlier than usual.

"Come on Reggie, time to get up. We have a lot to do today," she said.

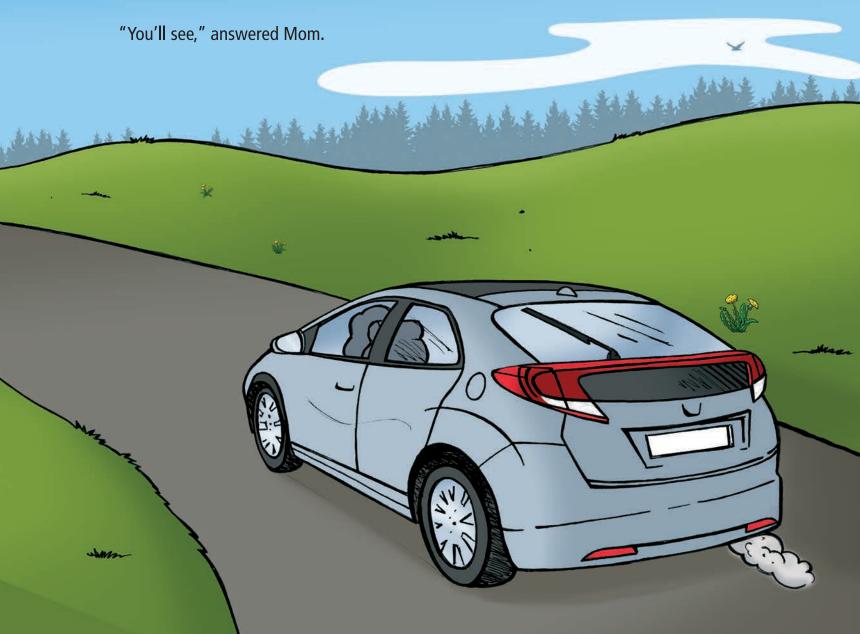
When they got in the car, Reggie asked, "Where are we going and what do you mean we have a lot to do?"



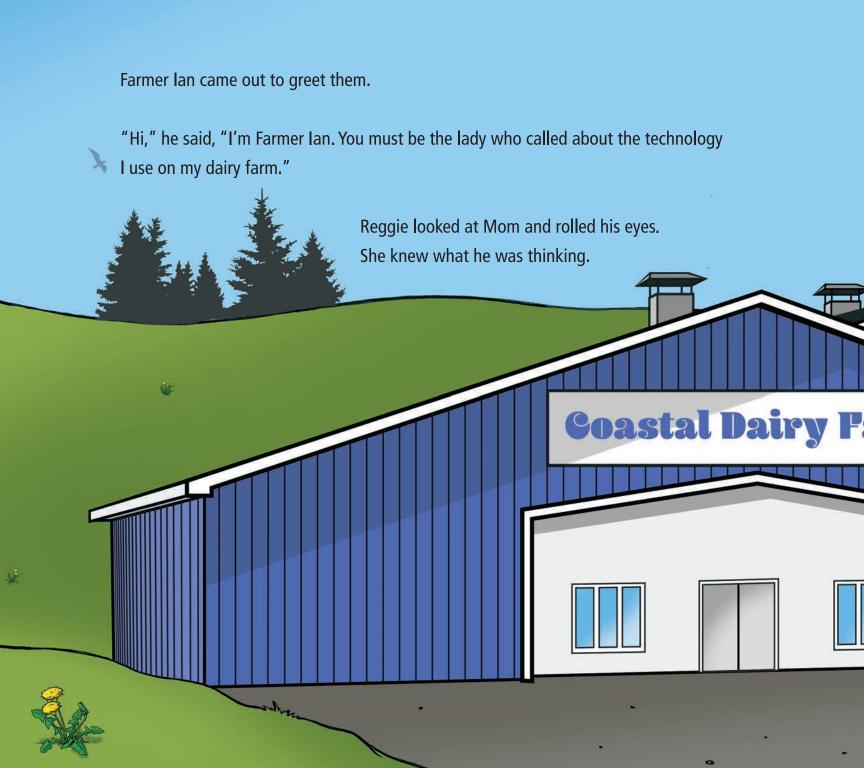


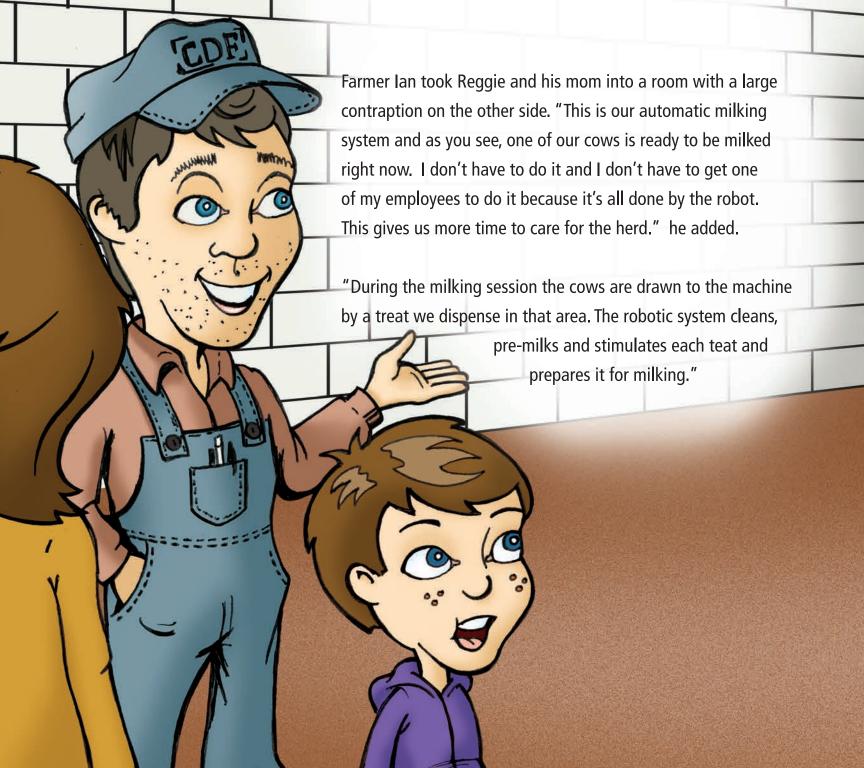


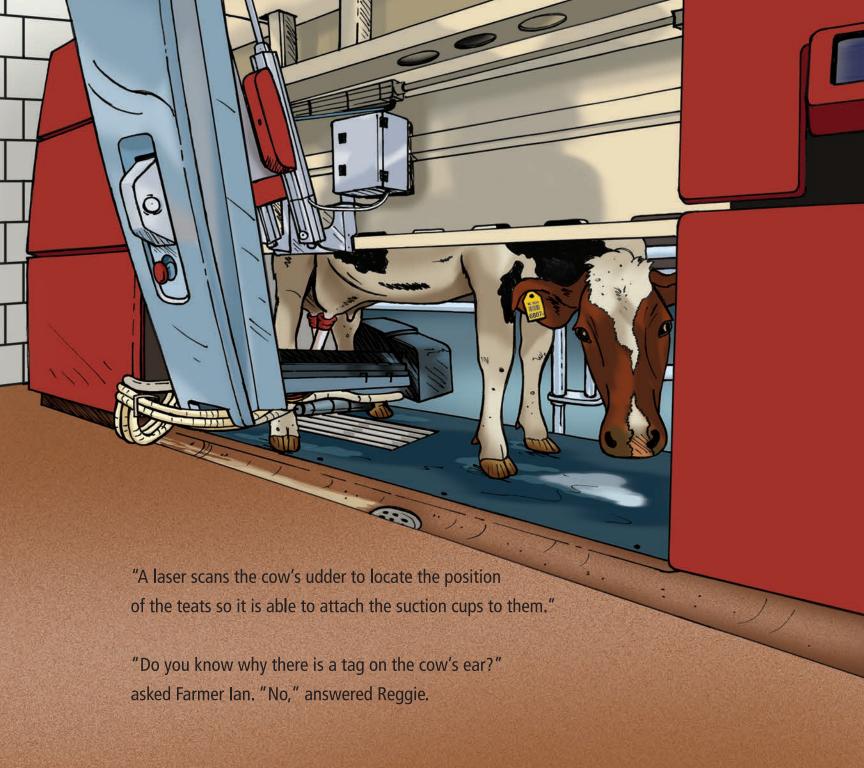




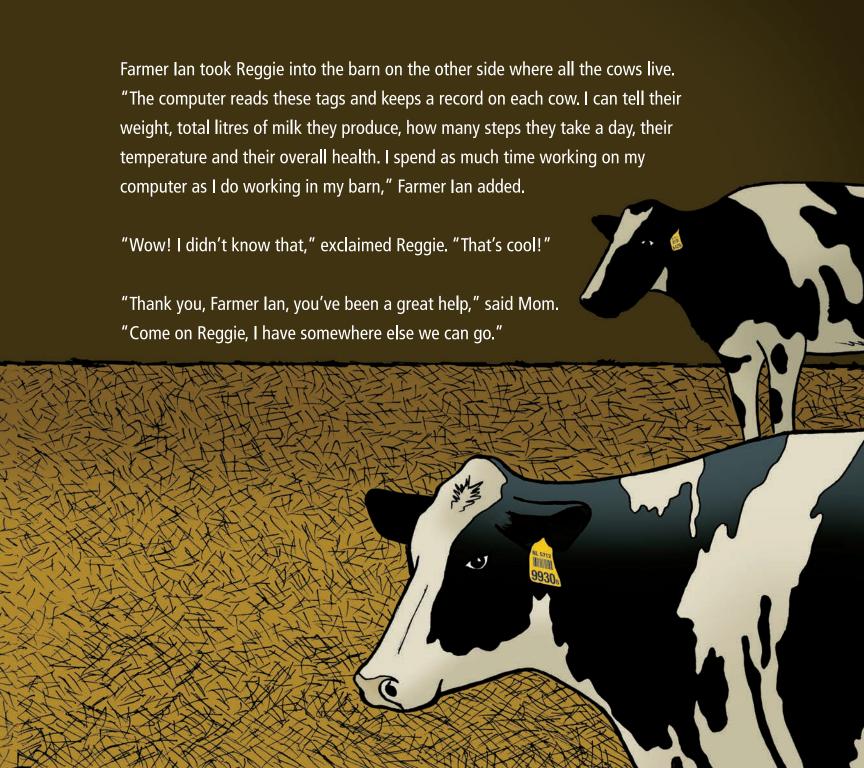


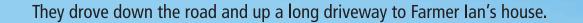




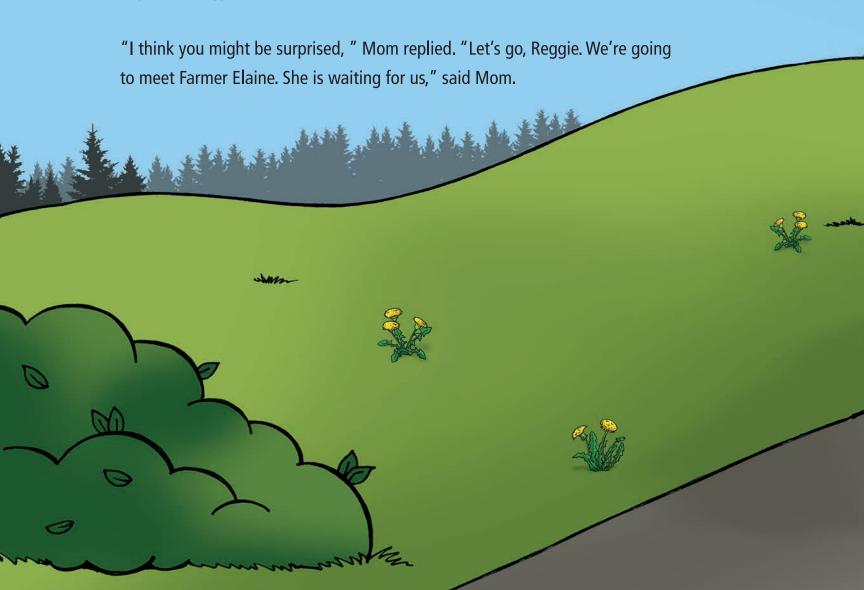


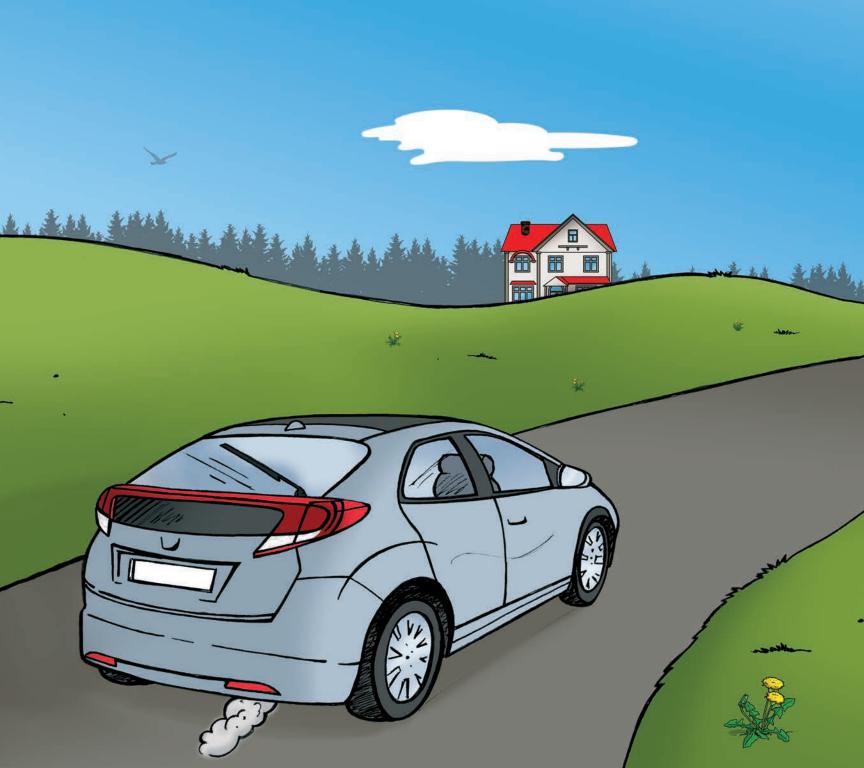


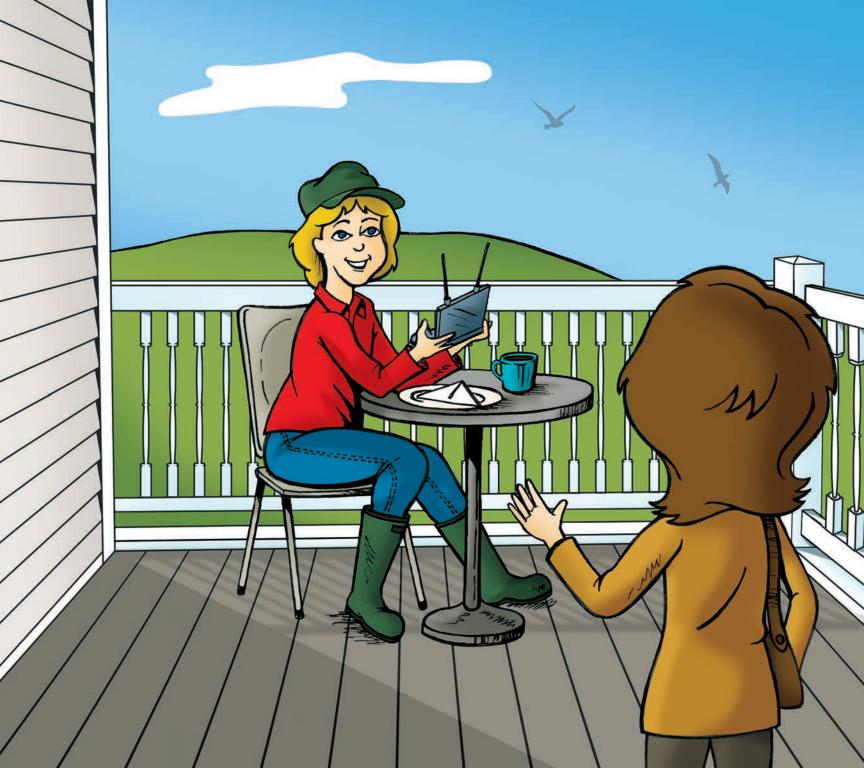




Reggie looked at the expanse of green fields all around. "I don't think we'll find any technology here Mom," he said.







Farmer Elaine was sitting on her back patio when Reggie and his Mom got there. Reggie noticed that Farmer Elaine had a device in her hands that looked like a controller and it looked like she was playing a video game.

"Hi," said Farmer Elaine. "Just give me a minute. I'm checking on my forage in my back field," she explained.





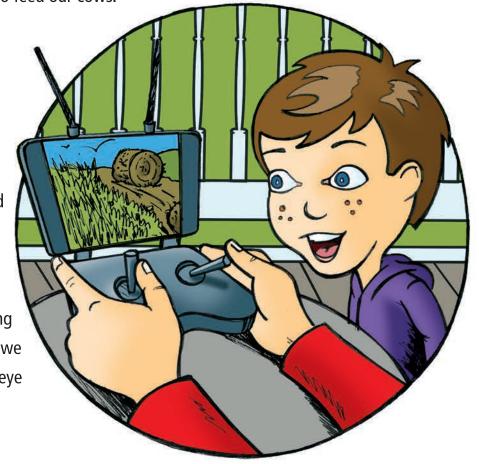
Reggie looked at Elaine, puzzled. "You're wondering how I'm checking my back field while I'm sitting here on my patio aren't you?" she laughed. "Come over and look at this," she beckoned to Reggie.

Reggie looked at the device she held in her hand. "This is a controller for my drone," said Elaine. "We use this to check on our fields to make sure there's no damage or flooding to the forage we grow to feed our cows."

"Wow!" he said, "I've always wanted a drone."

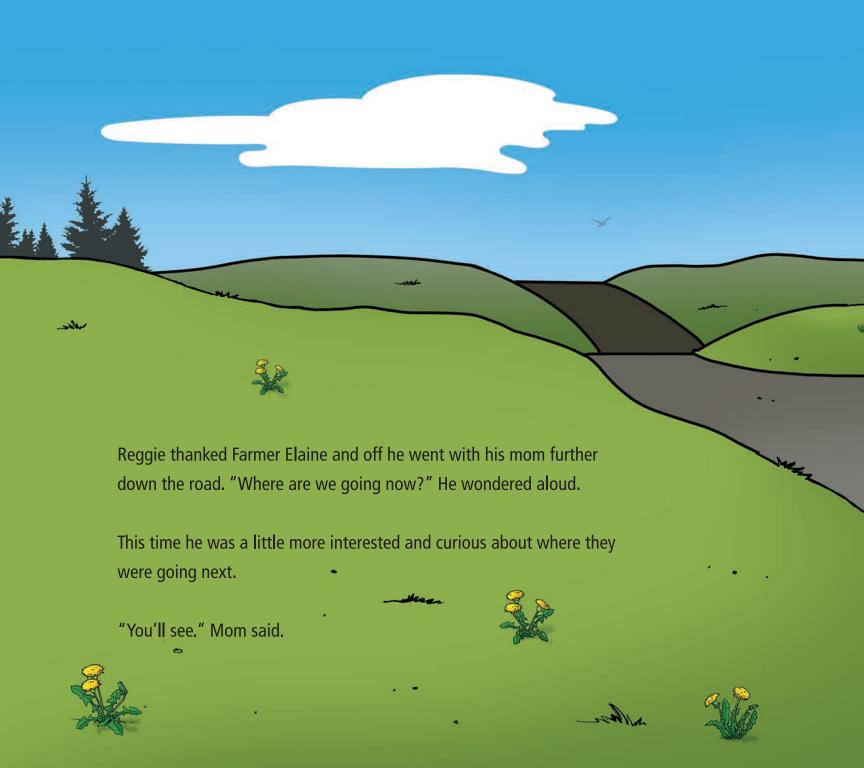
Reggie watched intently as Farmer Elaine brought the drone down to look closely at the baled forage sitting on the field.

"I've been a little worried about this field; there was some flooding there last year and with the rain we had last week I have to keep an eye on it," she explained.





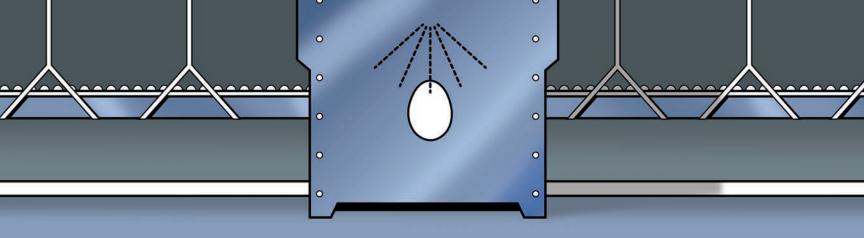






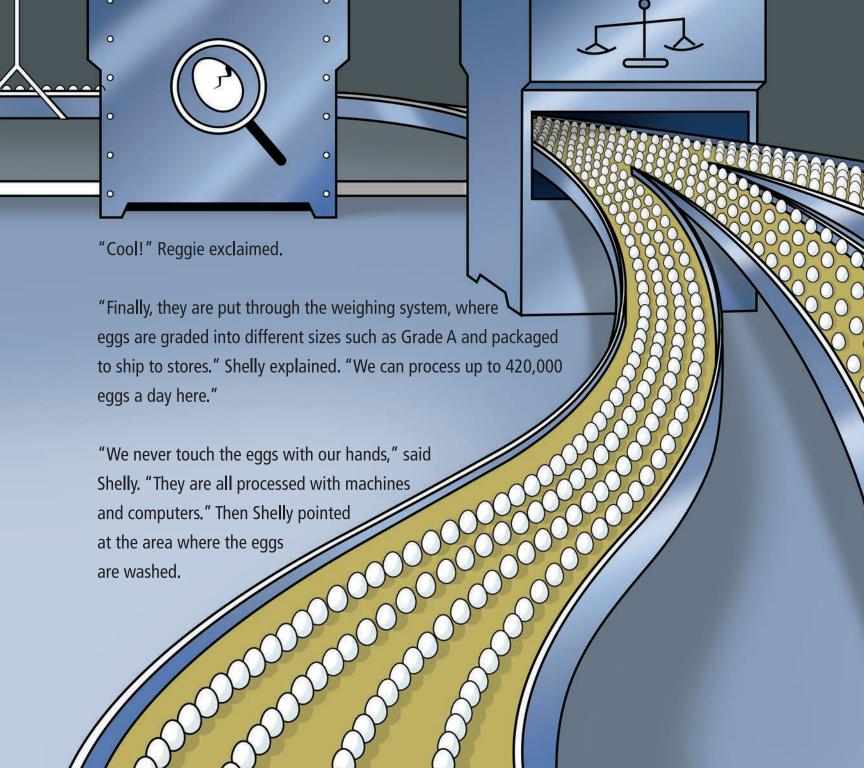




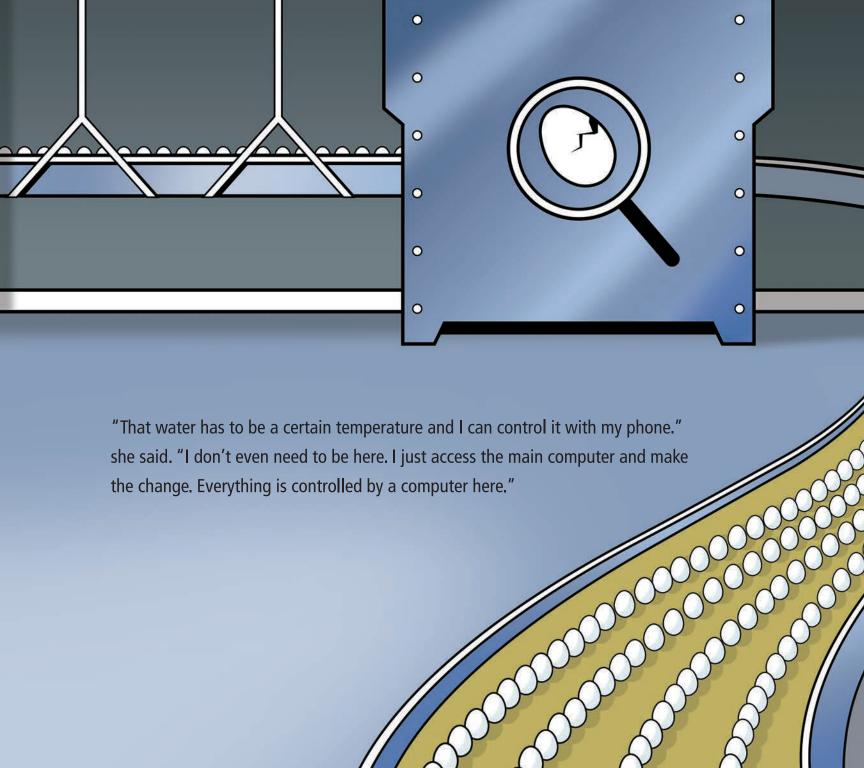


"Eggs are washed and put through the Egg Inspector which checks using lights and cameras to make sure each egg is perfect." Shelly said. "Then, they go through the Crack Detector where microphones inside tiny hammers tap the eggs to detect any cracks. If there is a crack, it will make a different sound and send that information to the Crack Detector."

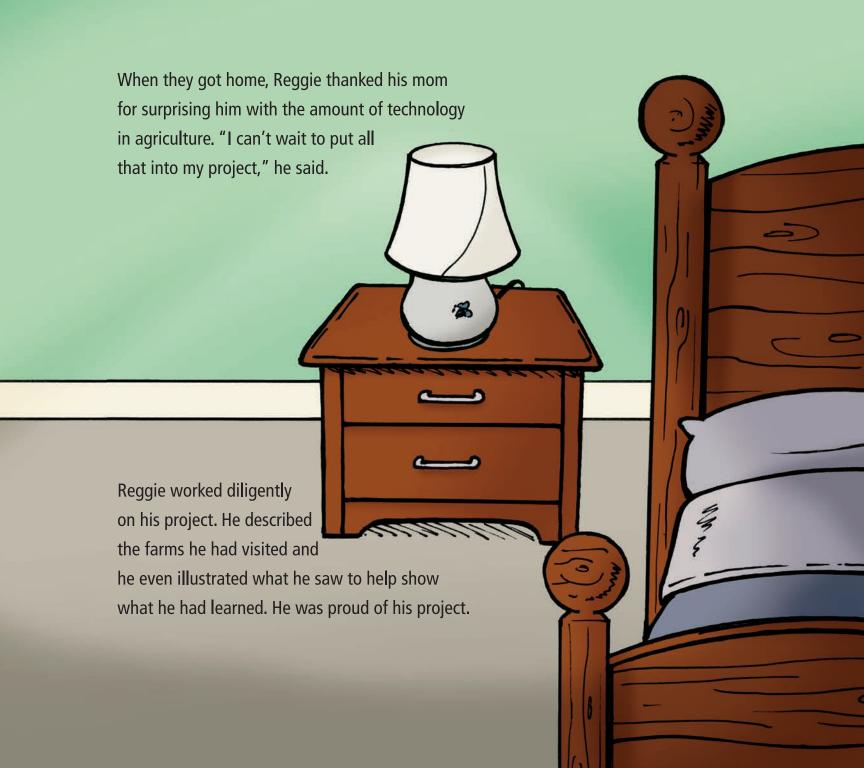


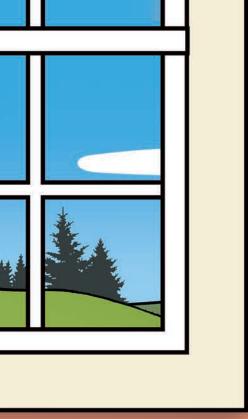












That Friday when Reggie got home, he ran into the house.

"Mom, mom!" he shouted. "Guess what?"

Reggie showed his project grade. He got two gold stars.

"Thanks for all your help, Mom," he said, "I'm so glad I was given this project! I learned a lot! Agriculture really is using modern technology!"



Bytes.Technology!

- 1. Farmers use technology to climatically control temperature and humidity in greenhouses, vegetable storages and livestock barns. This technology ensures optimal environmental conditions for crops and livestock.
- 2. Two factors that have made farming more productive in its yields are engines and the widespread availability of electricity.
- 3. Newfoundland and Labrador's first **robotic milking system** was introduced in 2014. Robotic milking systems reduce the costs of labour, increase herd health, and increase milk production.
- 4. Tags on the ears of livestock (including cows and sheep) use RFID (Radio Frequency Identification). **RFID tags** use electromagnetic fields to automatically identify and track each animal. This technology allows farmers to track each animal's health, weight, food intake and more.
- 5. **Round bale silage** is the product of cutting forage crops with conventional hay harvesting equipment, allowing the forage to wilt to 40 and 60 percent dry matter, baling the forage into tight bales and quickly wrapping the bales in plastic so oxygen is excluded.
- 6. **GPS** (Global Positioning System) Auto Steer tractors are auto steered with great precision to help reduce the cost to the farmer and reduce the fatigue to the operator. Once coordinates and layout of the fields are logged in, the only thing the operator has to do is turn around at the end of the field.
- 7. Data generated by sensors or agricultural drones collected at farms offer a wealth of information about soil, seeds, livestock, crops, costs, farm equipment or the use of water and fertilizer.
- 8. Advanced analytics help farmers analyze real-time data such as weather, temperature, moisture, prices, or GPS signals and provide insights on how to optimize yield, improve farm planning, make smarter decisions about the level of resources needed, and when and where to distribute them to prevent waste.
- 9. An **egg washing system** uses removable brushes and spray modules. The high volume low-pressure water supply maximizes cleaning and reduces damage of the eggs. There are over 10 million dozen eggs produced in Newfoundland and Labrador each year.

Food for thought: Before your next meal, contemplate where your food on your plate came from and how it got there!





Agriculture in the Classroom-Canada (AITC) member organizations celebrate Canadian Agriculture Literacy Month (CALM) every March in classrooms across the nation. Agriculture comes alive in Canadian classrooms as students participate in activities to learn about, connect to and understand this important industry. Events and activities run throughout the month to celebrate the fact that agriculture is all around us, every day!

To learn about our school programs and teaching resources visit:

Agriculture in the Classroom NL Program 1147 Topsail Road Mt. Pearl, NL, A1N 5G2

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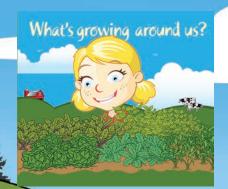








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