

# Teacher Package Science & Technology

## Grades 8-12 Careers, Grade 10

# Careers in Agriculture

### INCLUDED IN THIS PACKAGE:

- **Before your visit:**
  - Planet X Materials and Lesson Plan
- **At The Fair:**
  - Career Profile Activity: Parts 1 & 2
  - Start a Farm Assignment: Parts 1-4
  - Growth Hub Stage Career Information Session Worksheet

Presented with:



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P R E S E N T S

# PLANET X

'OUT OF THIS WORLD' OPPORTUNITIES  
IN AGRICULTURE AND FOOD

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**AN EDUCATIONAL RESOURCE FOR GRADES 9 TO 12**

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Visit

<https://aitcresources.agescape.ca/en-ca/for-educators/curriculum-linked-resources>

Sign up, and search 'Planet X' for this online resource and lesson plan!



Speak to different exhibitors The Royal Agricultural Winter Fair. Find out more about the various careers in the Agri-Food sector and complete this tracker.

**CAREER TRACKER**

**CAREER 1**

*Job/Career (geneticist, producer, mechanic/technician, insurance adjustor, etc.)*

*Details (educational pathway, skills required, etc.)*

**CAREER 2**

*Job/Career*

*Details*

**CAREER 3**

*Job/Career*

*Details*

**CAREER 4**

*Job/Career*

*Details*

Presented with:

# Career Profile Activity: Part 2



AGRICULTURAL WINTER FAIR

Name: \_\_\_\_\_ Date: \_\_\_\_\_

From your exploration of The Royal Agricultural Winter Fair, pick one job/career, and create a detailed profile to share with your class.

**Career Name/Job Title:**

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**Job Description:**

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**Skills Required:**

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**Educational Pathway(s):**

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**Connected Careers:**

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**This Career interests me because...**

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AGRICULTURAL WINTER FAIR

## START A FARM ASSIGNMENT

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Careers in Agri-Food Sector

**You have just been notified that you are the recipient of an Agriculture and Agri-Food Canada grant. You now have the funding that you need to start your own farm. You need to do all of the following:**

- 1 Step 1: PICK A FARM. What kind of farm do you want to start?**
- 2 Step 2: GATHER SUPPLIES. What supplies and equipment do you need to run your farm?**
- 3 Step 3: HIRE PEOPLE. Who do you need to hire to help run your farm?**
- 4 Step 4: VOICES FROM THE FIELD. Network with the experts at The Fair. What are the 3 things you wish you would have known when you were starting out?**





## START A FARM ASSIGNMENT

1

# PICK A FARM

What kind of farm do you want to start?

Here is a list of the types of farms that are represented here at The Royal. As you walk through The Fair, decide which type of farms you might be interested in starting and rank them here.

Vegetable Farm _____	Poultry & Egg Farm _____	Hog & Pig Farm _____
Dairy Farm _____	Grain Farm _____	Fruit Farm _____
Beef Farm _____	Beekeeping Farm _____	Commercial Farm _____
Hay Farm _____	Hobby Farm _____	Organic Farm _____

What is your rationale for your rankings?

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## START A FARM ASSIGNMENT

# 2

# GATHER SUPPLIES

## What supplies/equipment do you need to run your farm?

Now that you have decided what type of farm you are going to start, you will need to think about the equipment and supplies that you will need to purchase or rent to run your farm. As you walk through The Fair, write down the price of the different supplies and equipment that you will need.

Barns _____ Shelters _____	Spades _____ Shovels _____	Trucks _____ Tractors _____	Silos _____ Sheds _____	Cages _____ Fences _____	Buckets _____ Feeders _____	Rakes _____ Weeding hoes _____
Wagons _____ Trailers _____	Axes _____ Saws _____	Dollies _____ Wheelbarrows _____	Hoses _____ Watering cans _____	Sickles _____ Trowels _____	Gloves _____ Safety Gloves _____	Saddles _____ Bridles _____
Blankets _____ Incubators _____	Heat Lamps _____ Bulbs _____	Fans _____ Water bottles _____	Hoof picks _____ Hoof trimmers _____	Combs _____ Brushes _____	Soaps _____ Shampoos _____	Plows _____ Mowers _____
Seed Drills _____ Cultivators _____	Hay _____ Straw _____	Milking Machines _____ Vacuum Pump _____	Soil _____ Fertilizer _____	Plants _____ Seeds _____	Wheat _____ Barley _____	Chicken wire _____ Netting _____

Which supplies were you not able to find at the fair?

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**START A FARM ASSIGNMENT**

**3**

# HIRE PEOPLE

**Who do you need to hire to help run your farm?  
 What skills and knowledge-bases are needed?  
 Circle the people and roles you think you will need.**

**Animal Health**

- Veterinarian
- Feedlot Manager
- Livestock Groomer
- Livestock Technician
- Animal Nutritionist

**Animal Productivity**

- Food Processing Worker
- Agriculture Scientist
- Agriculture and Food Inspector
- Quality Inspector

**Communications**

- Organization Advisor
- Corporate Social Responsibility Representative
- Communications Specialist

**Equipment Maintenance**

- Agriculture Engineer
- Agriculture Equipment Technician
- Welder
- Heavy Equipment Mechanic

**Data Interpretation**

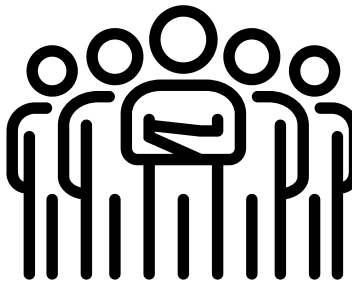
- Aerial Applicator
- Agriculture Retail Manager
- Precision Agriculture Technician

**Environment**

- Health and Safety Officer
- Biotechnologist
- Environmental Technician

**Diversification**

- Aquaculture Technologist
- Aquaculture Manager
- Agriculture Building Planner



**Crop Productivity**

- Agronomist
- Land Surveyor
- Irrigation Technician
- Greenhouse Workers
- Row Crop Producers

**What professions are missing? Which role will you play?**

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## START A FARM ASSIGNMENT

### 5 VOICES FROM THE FIELD

Interview the expert on your chosen type of farm.

What are the 3 things you wish you would have known when you were starting out?

#### EXPERT 1

*Job/Career (geneticist, producer, mechanic/technician, insurance adjustor, etc.)*

*Three pieces of advice*

#### EXPERT 2

*Job/Career*

*Three pieces of advice*

#### EXPERT 3

*Job/Career*

*Three pieces of advice*

#### EXPERT 4

*Job/Career*

*Three pieces of advice*



AGRICULTURAL WINTER FAIR



**GROWTH  
HUB STAGE**

PRESENTED BY  **Future Launch**

## Career Information Session

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Careers in Agri-Food Sector

Answer the following questions about a Growth Hub Stage session

- 1 What was the career or educational pathway being explored in the session?

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- 2 Did anything surprise you about that career pathway?

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- 3 Draw a flowchart of the steps needed to pursue the career discussed. (Post-Secondary Degree, Apprenticeship, College Diploma, etc.)

- 4 How is this career connected with the Agri-Food Sector?

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