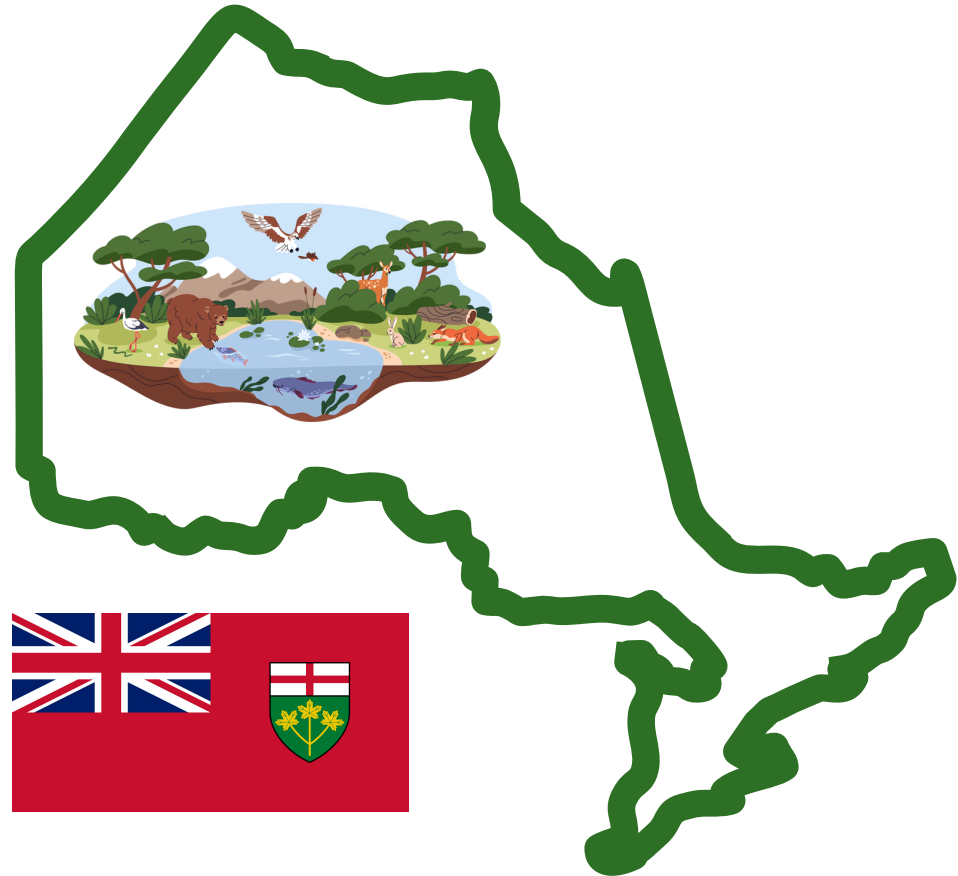


Ontario Grade 9 ECOLOGY

Unit SNC1W - Destreamed

- ✓ Complete Grade 9 Ontario ECOLOGY Unit
- ✓ Complete Daily Teaching Schedule
- ✓ Daily Teaching Schedule, Lessons, Test
- ✓ Editable & Digital Resources
- ✓ Save you over 75%



Lessons Included

Lesson 1 - The Spheres of the Earth

Lesson 2 - Ecosystems

Lesson 3 - Energy Flow In Ecosystems

Lesson 4 - Cycling of Matter In Ecosystems

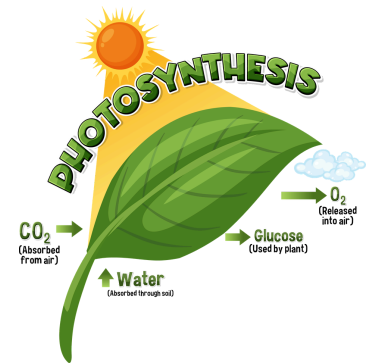
Lesson 5 - Population Influences Within Ecosystems

Lesson 6 - Ecological Succession

Lesson 7 - Biomass and Fossil Fuels

Lesson 8 - The Importance of Biodiversity

Lesson 9 - Invasive Species



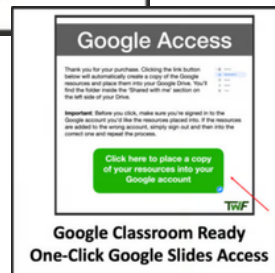
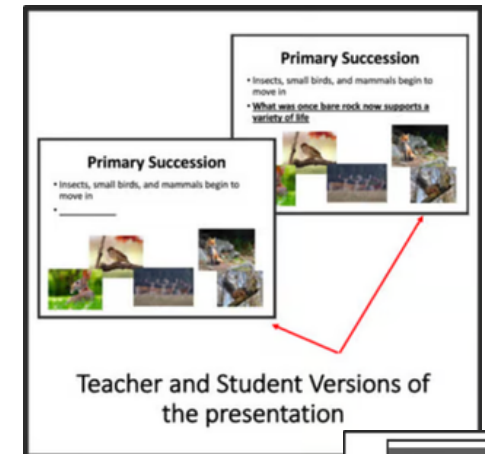
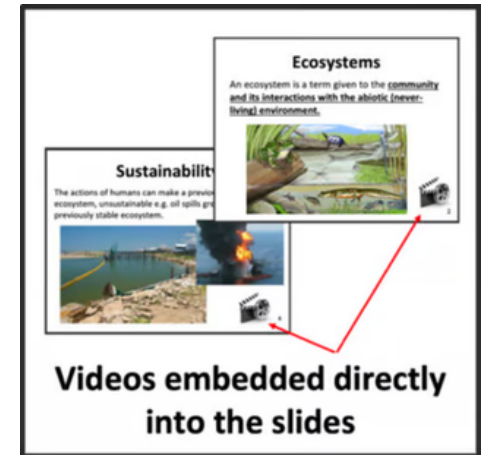
Classroom Fit Guarantee

I want you to feel confident when you purchase from Teach With Fergy. If a resource is not the right fit for your students, simply contact me and I'll provide double your purchase amount in store credit toward another resource in my store.



Everything You Need to Teach 9th Grade ECOLOGY in Ontario

- My daily teaching schedule which breaks down what to teach each day
- Lessons in PowerPoint and Google form
- Teacher and student versions of each lesson
- All quizzes and tests mentioned in the teaching schedule
- All activities and project - each one mentioned in the teaching schedule is include



Complete Lessons

3. Reduce the Beauty or Use of the Land

- Invasive species reduce the water quality and beauty of the landscape.
 - This will negatively impact wildlife viewing.
- Various invasive species can also prevent the enjoyment of natural activities such as swimming and boating.
 - Example: The Asian Carp



Videos embedded directly into the slides. One-click access.

Ecosystems

An ecosystem is a term given to the community and its interactions with the abiotic (never-living) environment.



Sustainability

The actions of humans can make a previous ecosystem, unsustainable e.g. oil spills on previously stable ecosystem.



Videos embedded directly into the slides

Ontario Grade 9 Destreamed Science Ecology Unit

- Day 1:
- Minds-On - Why mosquitoes bite some people more than others - <https://www.youtube.com/watch?v=y6f6k6w4o>
 - Student Quiz
 - Teach Lesson 1 - The Spheres of the Earth
 - Bill Nye - Atmosphere
- Day 2:
- Minds-On - What If We Killed Every Mosquito On Earth? <https://www.youtube.com/watch?v=LYEhOnded>
 - Teach - Lesson 2 - Ecosystems
 - Go out to the field and locate and write down 10 biotic and 10 abiotic factors individually
- Day 3:
- Minds-On - [The Lorax Movie and Questions](https://www.youtube.com/watch?v=K7u_pQAGIE)
 - Start Lesson 3 - Energy Flow in Ecosystems - Part 1
- Day 4:
- Minds-On - Are there any places on Earth with no bugs? https://www.youtube.com/watch?v=jagP_u62Qo
 - Teach Lesson 3 - Energy Flow in Ecosystems - Part 1
 - Producers and Consumers Chart
- Day 5:
- Minds-On - From the top of the food chain down - <https://www.youtube.com/watch?v=3l9gDooYdk>
 - Teach Lesson 3 - Energy Flow in Ecosystems - Part 2
 - Food Web Activity
- Day 6:
- Minds-On - The 6 Craziest Extinctions Ever - https://www.youtube.com/watch?v=K7u_pQAGIE
 - Student Quiz
 - GMO Research Project - Rough notes due at the end of class. Presentations due next day
- Day 7:
- Minds-On - Dead stuff: The secret ingredient in our food chain - https://www.youtube.com/watch?v=K7u_pQAGIE
 - GMO Research Project - Presentations

Daily Teaching Schedule

Primary Succession

- Insects, small birds, and mammals begin to move in
- What was once bare rock now supports a variety of life



Primary Succession

- Insects, small birds, and mammals begin to move in
- _____



Teacher and Student Versions of the presentation

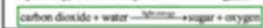
Photosynthesis

- Producer - an organism that makes its own energy-rich food compounds using the Sun's energy
- On land, major producers are green plants, which contain chlorophyll inside their chloroplasts that capture light energy and create sugar



Photosynthesis

- The process where the Sun's energy is converted into chemical energy (sugars/starch)
- Occurs in plants (autotrophs)
- Producer - an organism that makes its own energy-rich food compounds using the Sun's energy
- On land, major producers are green plants, which contain chlorophyll inside their chloroplasts that capture light energy and create sugar



Teacher and Student Versions of the presentation

Google Access

Thank you for your purchase. Clicking the link button below will automatically create a copy of the Google resources and place them into your Google Drive. You'll find the folder inside the "Shared with me" section on the left side of your Drive.

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Google Classroom Ready
One-Click Google Slides Access

Activities, Project, Labs, and Test

Invasive Species Project

Task: In groups of 3, you will research and create a presentation on an invasive species. No two groups may do the same invasive species. Choices will be on a first-come, first-served basis.

Submission: You will present via Google Slides to the class.

What to include:

- The reason why it was introduced/How it was introduced. Background information required about the species as well as how it/why it arrived.
 - The results of the introduction to the natural ecosystem.
 - What people have done to try to reduce or eliminate the invasive species and the results of these actions.
- Each bullet point above must be discussed over 2 slides.
- Each group member will be responsible for one of the bullet points. You will be marked individually so you must include your name at the top of each slide you completed.

Steps:

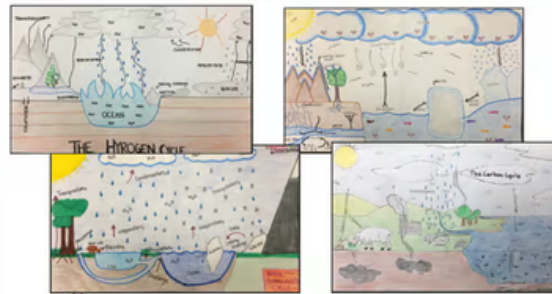
- Create a Google Doc and share it with each member of your group. Your Google Doc will be your rough copy which will include the information you will present. Each person is responsible for completing their portion of the rough copy. Each section of the rough copy should be between 1/2 - 1 page single spaced, 12 font.
- Create a Google Slides presentation and share it with each member of your group. Each member must create their slides individually using the information they compiled in the Google Doc. Each slide must contain information as well as images.

Invasive Species Project



Daily Minds-On Videos

Water and Carbon Cycle Activity



- ✓ Hands-On Water & Carbon Cycle Models
- ✓ Grading Made Easy
- ✓ Perfect for Multiple Grades

Biodiversity and Invasive Species Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Ecology Unit Test

/35 Total %

Name: _____

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Part A: Multiple Choice

- Ecology is the science that studies:
a) the interaction of living things with each other and their surroundings
b) the anatomy of living things
c) the environment in which humans live
d) matter and the changes that it undergoes
- A step-by-step sequence with only one path showing the relationship between organisms that feed on each other starting with a food source such as plants is called:
a) food web
b) biomass pyramid
c) food chain
d) a and c are correct
- Which of the following would be considered a BIOTIC factor in an ecosystem?
a) bacteria
b) rain
c) rocks
d) wind
e) c and d are correct
- In ecological succession, what is the pioneer species?
a) The first species to begin a succession.
b) The second stage of succession.
c) The first animal to arrive after secondary succession has occurred.
d) The final stage in succession.
- Organisms which are able to make their own food are called:
a) herbivores
b) carnivores
c) omnivores
d) producers
- If all plants on the earth were eliminated, why would all other living things die off?
a) plants create energy from sunlight which feeds everything
b) plants decompose dead organisms
c) plants create sugar from sunlight which feeds everything
d) plants are at the end of every food chain
- What effect would a lack of sunlight have on the carbon dioxide (x) and oxygen (y) levels in an ecosystem
a) Decrease x and y
b) Increase x and y
c) Decrease x and increase y
d) Increase x and decrease y
e) There will be no effect on the level of these gases
- The third trophic level is occupied by
a) Secondary consumers
b) Primary consumers
c) Producers
d) Tertiary consumers
- A group of organisms of different species that live and interact together is referred to as a(n)
a) ecosystem
b) population
c) community
d) biome
e) none of the above

Unit Test with Answer Key

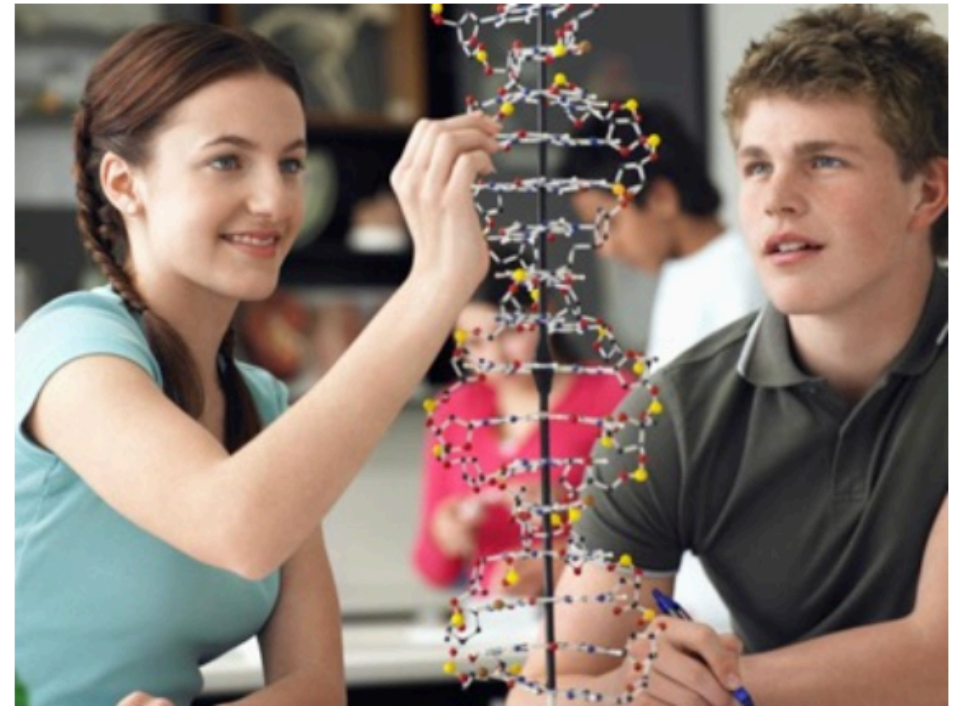
Who is this Unit for?

- **Teachers who teach grade 9 destreamed science in Ontario**
- **Teachers who want a no-prep, ready to go out of the box unit**
- **Teachers who don't have time to plan out their Unit**

Get away from tired practices and unengaged students



Provide a Scientifically-Proven means of instruction



Incorporate Technology and Increase Collaboration

