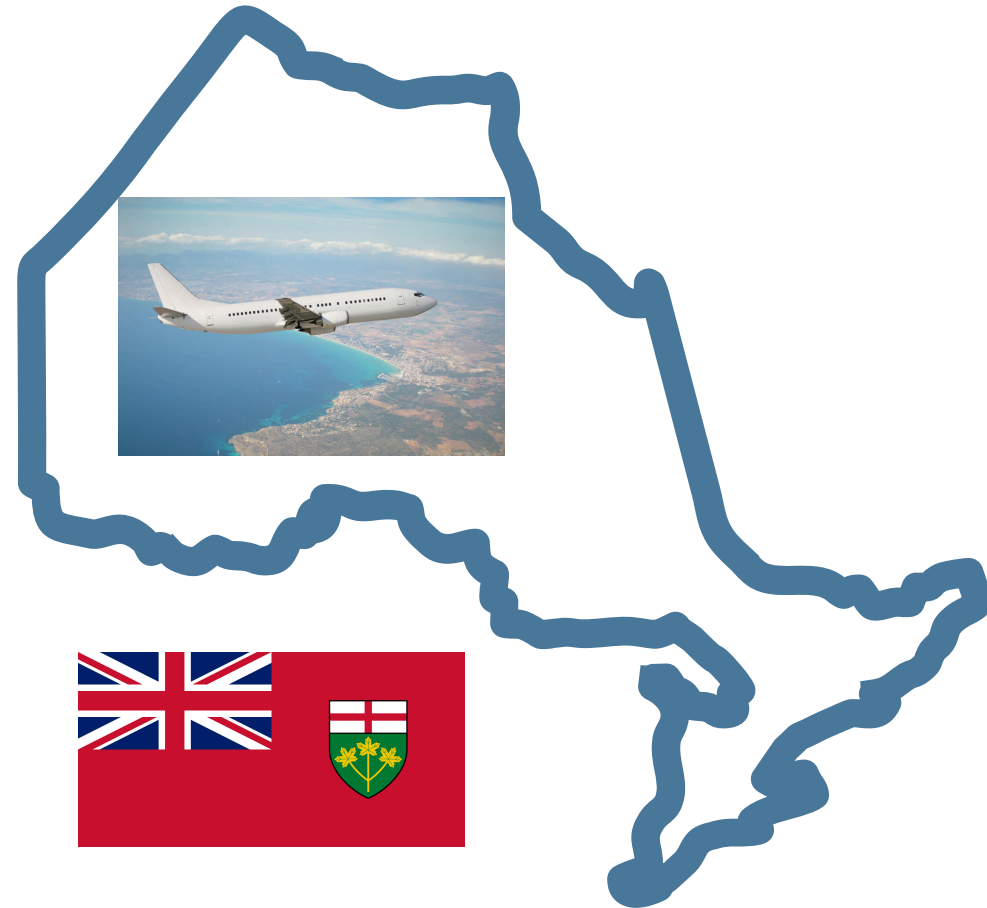


Ontario Grade 11 PHYSICS

FLIGHT Unit

- ✓ Complete Grade 6 Ontario FLIGHT Unit
- ✓ Daily Teaching Schedule
- ✓ 6 Lessons, 20+ Activities, 1 Project
- ✓ Fully Editable Resources
- ✓ Save you over 75%



Lessons Included

Lesson 1 - The History and Future of Flight

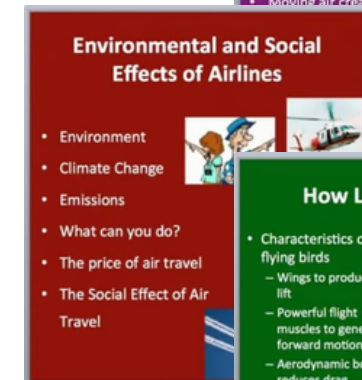
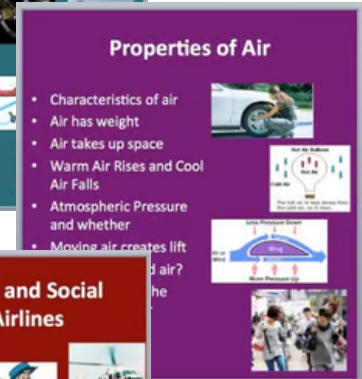
Lesson 2 - How Planes and Other Aircraft Fly

Lesson 3 - How Flight Can Be Improved

Lesson 4 - The Properties of Air

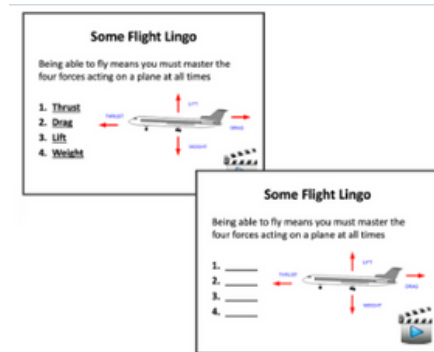
Lesson 5 - Environmental & Social Effects of Airlines

Lesson 6 - How Living Things Fly

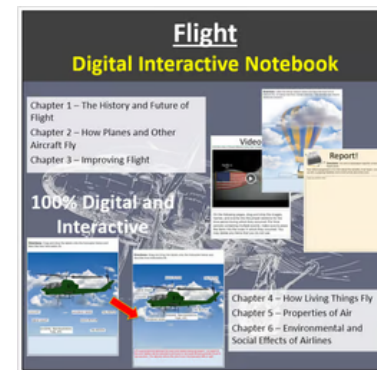
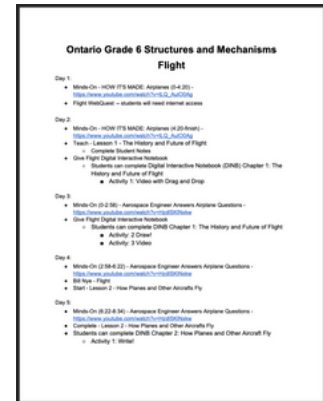


Everything You Need to Teach 6th Grade FLIGHT in Ontario

- 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
- Lots of activities and project - all mentioned in the teaching schedule



Teacher and Student versions of the lessons

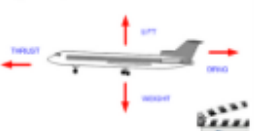


Complete Lessons

Some Flight Lingo

Being able to fly means you must master the four forces acting on a plane at all times

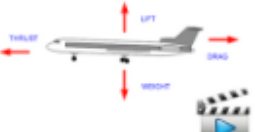
1. Thrust
2. Drag
3. Lift
4. Weight



Some Flight Lingo

Being able to fly means you must master the four forces acting on a plane at all times

1. _____
2. _____
3. _____
4. _____



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.

Important: Before you click, make sure you're signed in to the Google account you'd like the resources placed into. If the resources are added to the wrong account, simply sign out and then into the correct one and repeat the process.

[Click here to place a copy of your resources into your Google account](#)

TWF

**Google Classroom Ready
One-Click Google Slides Access**

Ontario Grade 6 Structures and Mechanisms Flight

Day 1:

- Minds-On - HOW IT'S MADE: Airplanes (0-4:20) - https://www.youtube.com/watch?v=1LQ_Au00Gg
- Flight WebQuest - students will need internet access

Day 2:

- Minds-On - HOW IT'S MADE: Airplanes (4:20-4:40) - https://www.youtube.com/watch?v=1LQ_Au00Gg
- Teach - Lesson 1 - The History and Future of Flight
 - Complete Student Notes
- Give Flight Digital Interactive Notebook
 - Students can complete Digital Interactive Notebook (DINB) Chapter 1: The History and Future of Flight
 - Activity 1: Video with Drag and Drop

Day 3:

- Minds-On (0-2:56) - Aerospace Engineer Answers Airplane Questions - https://www.youtube.com/watch?v=1LQ_Au00Gg
- Give Flight Digital Interactive Notebook
 - Students can complete DINB Chapter 1: The History and Future of Flight
 - Activity 2: Draw!
 - Activity 3: Video

Day 4:

- Minds-On (2:58-6:22) - Aerospace Engineer Answers Airplane Questions - https://www.youtube.com/watch?v=1LQ_Au00Gg
- Bill Nye - Flight
- Start - Lesson 2 - How Planes and Other Aircraft Fly

Day 5:

- Minds-On (6:22-8:34) - Aerospace Engineer Answers Airplane Questions - https://www.youtube.com/watch?v=1LQ_Au00Gg
- Complete - Lesson 2 - How Planes and Other Aircraft Fly
 - Students can complete DINB Chapter 2: How Planes and Other Aircraft Fly
 - Activity 1: Write!

**Teacher and Student
versions of the lessons**

Daily Teaching Schedule

Powerful flight muscles to generate thrust

- When a bird flaps its wings, it sends air down and behind to produce thrust
- To accomplish this, a bird must twist its wings to create the right angle
- Birds accomplish this with very strong flying muscles




Today's Aircrafts – Passenger

- Boeing 787 Dreamliner
 - Costs between 218-300 million USD
 - _____
 - Can fly from Los Angeles to Sydney Australia and back again without refueling





**Videos embedded
into your slides**

Activities, WebQuest, Review, and Project

Device-Based Scavenger Hunt How Planes Fly



Includes

- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks, and laptops

- 100% Digital
- Simulations
- Quizzes
- Videos
- Games
- and more



Example Location Screenshots

Scavenger Hunt – How Planes Fly – Location 1

Watch a Video: Watch the video below and answer the following question.

Scavenger Hunt – How Planes Fly – Location 2

Timeline: Create a timeline for major events in aerodynamic understanding and airplane development and use. Your timeline must have at least 5 major developments.

Scavenger Hunt – How Planes Fly – Location 4

Connecting a message: Read the descriptions, then connect A. To connect it fully, you must be including your reasoning. Your statement should be 2-3 if they require additional research.

Scavenger Hunt – How Planes Fly – Location 5

Bank Out: Bank out the plane with the largest wingspan you can find online. Locate the picture, take a screenshot, and upload it below. What is it called? What is the wingspan?

Speed Quizzing

_____ are credited with the first flight of a heavier-than-air craft.

The Wright brothers

What are drones?

Unmanned aerial vehicles controlled remotely or pre-programmed.



A fast-moving, review activity where students quiz each other, swap cards, then move on to someone new

Flight Unit

History of Flight WebQuest

Name: _____

Part 1: Go to - <https://www.grc.nasa.gov/www/k-12/UFET/StudentSite/historyofflight.html>

1. Who developed the Orintheopter flying machine and in what year? Provide a picture of the flying machine below in addition to your answers.

2. Who is credited with performing the first heavier-than-air flight? What was the name of the airplane that travelled for 120 feet and what was the date of this historic first flight? Provide a picture of the flying machine below in addition to your answers.

Part 2: Using your web browser, answer the following questions.

3. What did Amelia Earhart accomplish and when did she accomplish it?

4. What was the first "modern airliner" and when did it first fly?

Part 3: Go to - <http://www.airships.net/hindenburg/disaster>

5. What date did the disaster occur?

6. What percentage of the passengers died as a result?

7. What caused the disaster?

WebQuest

Flight Digital Interactive Notebook

Chapter 1 – The History and Future of Flight
Chapter 2 – How Planes and Other Aircraft Fly
Chapter 3 – Improving Flight

100% Digital and Interactive




Chapter 4 – How Living Things Fly
Chapter 5 – Properties of Air
Chapter 6 – Environmental and Social Effects of Airlines

Students are able to move objects around the screen to complete the activity

HOW PLANES FLY Lab Station Activity



Two Worksheets
Interactive Lab Stations
Flight Review
No-Prep Setup
Bonus Word Activities

Bill Nye Video Worksheet

FLIGHT

Two Worksheet Versions – One with a Word Bank and one without

Word Search of Key Subject terms

Full Editable Word, PDF, and Google Doc versions

Print-Ready & Digital



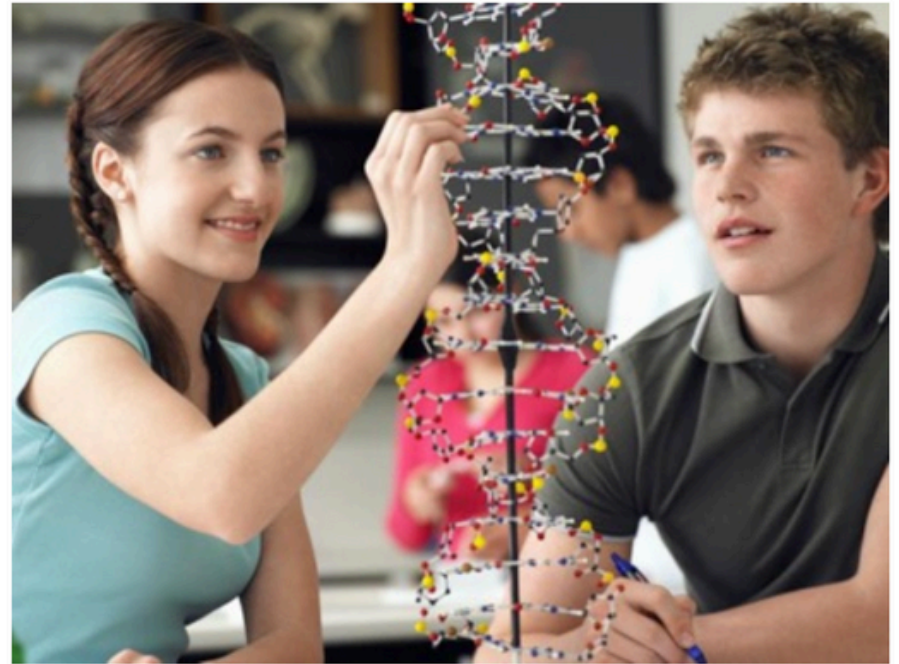

Who is this Unit for?

- **Teachers who teach grade 6th grade 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

