



Introduction:

People have always been travellers from one place to another. Throughout history people have always been perfecting their abilities to show locations more and more precisely. People have also been devising transportation vehicles and systems to move themselves more quickly and comfortably from one location to another. With the invention of the airplane, transportation has been revolutionized. On any given day in the present era, commercial aircraft move 2 million people from location to location. The responsibility to do this safely, accurately and economically lies with air traffic controllers.

In this task, you will assume the role of an air traffic controller at Lester B. Pearson International Airport in Toronto.

Your challenge (task) is to prepare flight plans for five commercial aircraft (in bound from five different locations in North America) to land safely at **Pearson International Airport** at different times.

You will be required to learn, practice and refine your geographical skills by performing some air traffic controller training exercises **before** you prepare the required flight plans.

You will also be examining the **issue** of what happened to the USA air traffic controllers in August 1981.

Task:

Your challenge (task) is to prepare flight plans for five commercial aircraft (in bound from five different locations in North America) to land safely at Pearson International airport at different times.

Process:

1. As an introduction to this task, review the science of flight by taking time to Visit Learn Alberta's "The Thrill of Flight" to learn about air properties, gliders, planes, helicopters and much more!

B. Complete the training exercise1 to master the air **vocabulary** used by air traffic controllers. Once you complete this exercise, **submit** the Task Sheet#1 to your teacher for evaluation before you proceed.

C. Next complete the training exercise 2 to master the navigational skill of **determining distances** between airports using a variety of map scales. Once you complete this exercise 2, **submit** the Task Sheet#2 to your teacher for evaluation before you proceed.

D. Next complete the training exercise 3 to master the skill of determining the **absolute location** of air ports using a variety of map scales. Once you complete this exercise 3, **submit** the Task Sheet#3 to your teacher for evaluation before you proceed.

E. You should now be sufficiently confident to prepare your first five **flight plans** as a novice controller. Complete the 5 flight plans for five in-coming aircraft bound for Toronto International airport. Once you complete these flight plans, **submit** the Task Sheet#4 to your teacher for evaluation.

F. Do you know what happened to 90% of USA air traffic controller in August 1981?

Find out what happened! Go here.

G. *It is now time for you to take a stand (take a position on an ethical issue)?*

Answer this question.

Do you support the former US president's decision to fire the air traffic controllers for going on strike? Why or Why not?

Check what the Catechism of the Catholic Church says about the right to work and strikes.

Type in 2434 and 2435 in the search window of this site.

Resources:

Student page - http://www.ldcsb.on.ca/schools/cfe/RPT/RPT_AirTraffic/student.html

Parent page http://www.ldcsb.on.ca/schools/cfe/RPT/RPT_AirTraffic/parent.html