

## Future of Space Travel Brochure

Canada has a strong history in space exploration and is seen as a leader amongst other countries in performing astronomy and space science research. However, to obtain such a well respected status, the Canadian government must spend large amounts of money each year funding our space programs. In the 2013-2014 year, the government of Canada forecasts it will contribute \$309.7 million dollars to space travel and research. Some individuals feel this money may be better spent elsewhere.

In this project you will be taking a critical look at space travel in Canada. Your goal is to create an comprehensive brochure that will inform the public about the role of the CSA (Canadian Space Agency). You will examine space tools used by astronauts and how they may contribute to society, space probes and some of the discoveries they made, as well as some issues facing space travel today. You will then argue for or against space travel using a specific CSA mission as evidence for your argument.

### Part A: Background Information About Space Travel

Choose one topic from EACH of the following categories to outline in your brochure. Be sure to include all of the required information about each topic.

<b>Space Tools</b>	
<b><i>Choose From</i></b>	<b><i>Include Information About</i></b>
-Canadarm -Canadarm 2 -DEXTRE	-Description of your Space Tool -What it does -How it has aided in space exploration

<b>Space Probes</b>	
<b><i>Choose From</i></b>	<b><i>Include Information About</i></b>
-Mariner 10 -Magallen Orbiter -Pioneer -Phoenix Lander -Odyssey -Viking Landers -Galileo -Cassini-Huygens -Voyager 1 -Voyager 2 -New Horizons	-What is a space probe? -The name of the probe -Where it is traveling -When it was left/is leaving -When it arrived/is expected to arrive -What we discovered/hope to discover

<b>Issues Facing Space Travel</b>	
<b>Choose From</b>	<b>Include Information About</b>
-Issues Caused By Using Traditional Fuel -Weightlessness -Bone Loss -Problems With Blood Circulation -Space Sickness -Space Junk -Radiation -Psychological Problems	-What is your issue? -How does it negatively affect space travel? -What suggestions have been made to counteract your issue?

## **Part B: The Big Question**

Should Canada continue to fund space exploration?

Things you **MUST** include

- One specific instance in which Canadian Space Travel was either successful or not successful
  - You may wish to choose from such projects as:
    - The Mars Phoenix, RADARSAT, MOST, DEXTRE, SCISAT, Canadarm, International Space Station
  - How did this project benefit space exploration?
  - How may this project have benefited society?
  - What negative effects could this project have had on society?
  - How much has been spent by the CSA on this type of research?
  - What are some future space exploration missions?

Things you may wish to include

- A survey of other student's opinions on space exploration
- Where else the government could be spending this money
- How the discoveries made by the CSA compare with the rest of the world.

## **References**

You must include at least 3 outside references in your project. The textbook would count as one reference.