



Space Exploration Badge

Part A - Knowledge

- 1. Learn about the make-up of the universe including:
 - its composition
 - solar system
 - the sun
 - the earth
 - space radiation

See: <http://planetescapes.com/> or <http://kids.msfc.nasa.gov/solarsystem>
- 2. Describe the principles associated with rocket propulsion.

See: <http://www.execpc.com/~culp/space/propulsn.html> or <http://users.comkey.net/Braeunig/space/propuls.html>
- 3. Demonstrate knowledge of the different types of space vehicles.

See: <http://www.spacefuture.com/vehicles/vehicles.shtml>
- 4. Creatively describe the following:
 - Kepler's Law (<http://www.cvc.org/science/kepler.htm>)
 - Newton's Law (<http://www.aloha.com/~isaac/3laws/3laws.htm>)
 - how an orbit works (<http://www.execpc.com/~culp/space/orbit.html>)
 - the types of orbits (<http://dSPACE.dial.pipex.com/town/plaza/he13/orbtypes.gif>)
5. Understand basic satellite designs.

See: <http://www.spacefuture.com/vehicles/designs.shtml> or <http://www.thetech.org/hyper/satellite>
6. Describe the major moments in Canadian space history.

See: <http://www.space.gc.ca/about/canspamil/default.asp>



Part B - Proficiency

1. Make a list of the different ways in which we utilize space today.

See: <http://www.thetech.org/hyper/satellite/>
2. Design a rocket or satellite, and explain its parts.

http://www.execpc.com/~culp/space/rckt_asm.jpg or <http://www.thetech.org/hyper/satellite/>

Part C - Initiative

1. Visit an agency associated with space exploration. (e.g. museum, web site).

See: <http://www.space.gc.ca/welcomee.html> or <http://www.hq.nasa.gov/>
2. Describe, including the educational requirements needed, four jobs related to the space industry.

See: <http://www.space.gc.ca/about/car/default.asp/>

* We provide Web Sites only as a suggestion.

I got my Space Exploration Badge

by _____ on (date) _____



Trim along dotted line.