

Space Exploration

Part A - Knowledge

1. Learn about the make-up of the universe including:

a) its composition

b) solar system

c) the sun

d) the earth

e) space radiation

See: <http://planetescapes.com/> or

<http://kids.msfx.nasa.gov/solarsystem>

2. Describe the principles associated with rocket propulsion.

See: <http://www.execpc.com/~culp/space/propulsn.html>

or <http://users.commkey.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:

a) Kepler's Law (<http://www.cvc.org/science/kepler/html>)

b) Newton's Law (<http://www.aloha.com/~isaac/3laws.html>)

c) How an orbit works

(<http://www.execpc.com/~culp/space/orbit.html>)

d) 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.

See: 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://wwwspace.gc.ca/about/car/default.asp/>

- We provide Web Sites only as a suggestion.
