

## British Columbia Aviation Museum Educational Programme Questionnaire



You are invited to share your enthusiasm, knowledge and expertise with the up and coming younger generation as part of the (new!) BCAM Planned Educational Program.

Name \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

This programme is designed to take place at the Museum, where all visits will involve 2 or 3 activities plus a general tour of the museum itself, taking a total of at least 2 hours for the younger students and more for the older ones. However, it is possible that single activities could also take place at local schools. In the foreseeable future, this programme is expected to involve a time commitment of no more than an average of one morning/afternoon/evening per month per volunteer. Topics and activities would be aimed at the following age groups:

- A** = Elementary students (Grades 5, 6 & 7; i.e. 11, 12, 13 year olds)
- B** = Junior secondary students (Grades 8, 9 & 10; i.e. 14, 15, 16 year olds)
- C** = Senior secondary students (Grades 11 & 12; i.e. 17, 18 year olds)
- E** = Could be used for ESL students, but may need some adjusting
- #** = Will need some adjustment to accommodate different age groups.

**Please check, on the lines provided, any activities with which you would be willing to assist.**

The following subjects are aimed at those students who have little, if any, aviation experience. The role of the "Tour Guide" would be supervisory with a little guidance. All worksheets, etc. would be supplied.

### **Parts of Aircraft (groups A + E)**

**Suggested time 45 minutes**

- 1) Crossword or Word Search Worksheet.
- 2) Tour of a larger aircraft "Playing" Go to ....
- 3) "Quiz", colour in correct parts on a diagram. \_\_\_\_\_

### **Airport Design (groups A + B + E)**

**Suggested time 45 minutes**

- 1) Put together a model of an "Ideal" airport.
- 2) Look at Victoria Airport, either from a photo, or visually from outside Henderson Hangar.
- 3) Compare "Ideal" airport with Victoria Airport. \_\_\_\_\_

### **Aircraft Controls(#) (groups A + B + C)**

**Suggested time (A) 45 minutes, (B + C) 50 minutes**

- 1) Definitions of Lift, Drag, Weight, Thrust and their relationships.
- 2) Definitions of Pitch, Roll, Yaw.
- 3) Control Surfaces of the aircraft and what they are responsible for.
- 4) How the airflow causes the surfaces to work 5) Use available exhibits to illustrate. \_\_\_\_\_

### **Open Art Work (groups A + B + C + E)**

**Suggested time (A) 45 minutes, (B + C) 50 minutes**

Choice of drawing an exhibit or colouring in a diagram of an exhibit. \_\_\_\_\_

**Topics already suggested that are suitable for lecture or part lecture format:** Other than to Air Cadets, the following would be aimed at an audience that you should expect to have only a rudimentary knowledge of aviation. Group B students will have very little knowledge of anything but the simplest mathematics and physics. Whilst group C may have the basics of the Laws of Motion, etc. It would be advisable to keep things very elementary. For the B group, any “lesson” should involve mainly hands-on, visual aids and demonstrations. Group C could be more lecture-like. Each topic should be followed up with an approximately 15 minute “Mini-tour” of relevant exhibits. The presenter would be responsible for preparing the contents of his or her presentation. Should you feel you only wish to teach one of the age groups mentioned, please indicate which. All below have a suggested time of 50 minutes.

- 1) How quickly aircraft design developed in the 20th century (#) (B + C) \_\_\_\_\_
- 2) The Dam Busters - Thinking outside the box and KISS (B + C) \_\_\_\_\_
- 3) History of Victoria Airport (#) (B + C) \_\_\_\_\_
- 4) Role of the WAAF in WWII (B + C) \_\_\_\_\_
- 5) Careers in Aviation (B + C) \_\_\_\_\_
- 6) BC Aircraft (B + C) \_\_\_\_\_
- 7) Theory of choice of Aviation fuels for last 100+ years (C ONLY) \_\_\_\_\_
- 8) Molecules at work – the theory of Lift (C ONLY) \_\_\_\_\_
- 9) Meteorology (#) (B + C) \_\_\_\_\_
- 10) Fighting Forest Fires (B + C) \_\_\_\_\_
- 11) POW’s, Evaders and Escape Routes in WWII (B + C) \_\_\_\_\_

With your expertise and knowledge please suggest any other topics you feel would be of interest. Please fill in your suggested title(s)/subject(s), including the age group or groups to which you would aim each topic. If you would like to suggest more than space permits, please add to the bottom of the questionnaire.

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I would be willing to present this/these topics. \_\_\_\_\_

Presenters may appreciate help with preparing their lesson aids, such as models or putting together a power point presentation, etc. Would you be willing to assist in this capacity? Please indicate your area(s) of expertise or interest

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I would be willing to help in this capacity. \_\_\_\_\_

If you are unable to print this questionnaire, blank copies will be available at the front desk at the Museum. Thank you for your consideration. Please return the completed questionnaire to the front desk by October 31, 2018.

**Please contact David Fisher at [david45669@shaw.ca](mailto:david45669@shaw.ca) with your questions and/or comments.**