

# Designing an Expansion to



## Overview:

The architectural, design, engineering, and research firm, ILMTZ & Associates, has agreed to help fund an expansion to Heritage Park by accepting submissions from students across Calgary. The winning teams will be rewarded with a \$10 000 000 contract to allow the expansion to turn from a concept into a reality. To assist with this ILMTZ & Associates has asked your teachers to join the Board of Directors at Heritage Park to help with selecting the successful expansion.

Working individually, or with a partner, you will design an expansion to Heritage Park that will “bring history and learning alive” for its visitors. This project, in essence, is your final exam for Humanities, Science, and Math, and therefore is worth 10% of your term mark (5% of your final mark) for each class.

## Objectives:

- I CAN demonstrate my understanding of key social studies, language arts, science, math, and CTS (complimentary classes) concepts.
- I CAN create a cohesive product by researching the required information needed to complete the components I select.
- I CAN present my ideas to my classmates and teachers.
- I CAN choose ways to capitalize on my strengths to demonstrate my knowledge.

## Partners:

If you are choosing to work with a partner then you will be required to do the work of two people. The quality of the work must also reflect this choice. Please make sure to follow the partner requirements in each section as they are different.

## Instructions:

1. Choose a theme/topic from the list on the next page that you will use as the focus for your project. The theme/topic will be the theme of the expansion, just like Heritage Park has areas that focus on different themes such as the fur trade, the railway, Western settlement, Gasoline Alley, etc.
  - a. Then you will need to research your topic/theme to find information that will help you. You are encouraged to gather resources from a variety of sources including books, websites, magazines, videos, and interviews.
    - i. Use the skills that you have been taught this year to carefully select your resources so that they are informative and from a reliable and credible source.
    - ii. All notes must be hand written, printed, or word processed.
    - iii. Your notes must be organized and you may want to do them in the following format:

### Source Citation (*resource used*)

- ☐ Amazing hand written, printed, or word processed notes in point form
- ☐ More amazing hand written, printed, or word processed notes in point form

- iv. You must provide a typed copy of your resource list in proper formatting (*Use Citationmachine or APA Wizard to help you with your formatting*)

2. You will be using the structure that you created earlier in the year in Science as the base and location for your expansion.
3. As part of the requirements set out by ILMTZ & Associates you will be selecting projects from two different sections that will become part of your expansion. **(Please follow the directions in each section)**. As a result your expansion will consist of a number of different projects.
4. Make sure that you complete the pavilion & expansion plan & layout first before you begin working on the projects for your expansion
5. Remember that visitors from all over the world, including Quebec and France, will be coming to Heritage Park to explore the expansion. As a result, if you or your partner are taking French, you should try to make some features, such as signs, instructions, and/or menus, bi-lingual (in English and French)
6. Come up with a plan of action. Use the “Long Range Calendar Plan” (see attached) to organize your time and your expansions so that you can get your work done on time.
7. You must fill out your “Daily Work Log” (see attached) each day that you work on the project.
8. Know and understand all elements of your expansion so that you will be able to present your ideas to the Board of Directors (your teachers) for Heritage Park. They will be judging your presentations and will make a recommendation to ILMTZ & Associates to award the \$10 000 000 contract. **Use the Presentation / Summary form to help you with this.**
9. Good luck!

## Possible Themes/Topics:

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>❖ <b>Acadia</b> <ul style="list-style-type: none"> <li>➤ Conquest</li> <li>➤ Early Settlement</li> <li>➤ Expulsion</li> <li>➤ Oath of Allegiance</li> </ul> </li> <li>❖ <b>Battle for a Continent (Battle of Quebec)</b> <ul style="list-style-type: none"> <li>➤ 7 Years War</li> <li>➤ Acadia</li> <li>➤ Battle of Quebec</li> <li>➤ Natural Alliances</li> </ul> </li> <li>❖ <b>Becoming a Nation</b> <ul style="list-style-type: none"> <li>➤ Civil War</li> <li>➤ Confederation</li> <li>➤ Immigration</li> <li>➤ Politicians</li> <li>➤ Railway</li> <li>➤ Rebellions</li> </ul> </li> <li>❖ <b>Canadian Broadcast Corporation (CBC)</b></li> <li>❖ <b>Canadian Women</b></li> <li>❖ <b>Confederation</b> <ul style="list-style-type: none"> <li>➤ British North America Act</li> <li>➤ Citizenship</li> <li>➤ Confederation Leaders</li> <li>➤ Issues that Shaped Confederation</li> <li>➤ Provinces Joining Canada</li> <li>➤ Provincial Demands</li> </ul> </li> <li>❖ <b>Explorers</b> <ul style="list-style-type: none"> <li>➤ Map Makers</li> <li>➤ North West Passage</li> <li>➤ Specific Explorers (Cabot, Cartier, Frobisher, Hudson, Radisson, etc)</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>❖ <b>First Contact</b> <ul style="list-style-type: none"> <li>➤ Changes to Aboriginal Life</li> <li>➤ Elements of the Fur Trade</li> <li>➤ Learning to Survive (Working Together)</li> </ul> </li> <li>❖ <b>First Nations / Inuit / Métis</b> <ul style="list-style-type: none"> <li>➤ Coastal</li> <li>➤ Great Lakes</li> <li>➤ Inuit</li> <li>➤ Métis</li> <li>➤ Plains</li> <li>➤ Six Nations</li> </ul> </li> <li>❖ <b>Founding Peoples</b> <ul style="list-style-type: none"> <li>➤ English</li> <li>➤ First Nations</li> <li>➤ French</li> <li>➤ Métis</li> <li>➤ Scottish</li> <li>➤ United Empire Loyalists</li> </ul> </li> <li>❖ <b>Fur Trade</b> <ul style="list-style-type: none"> <li>➤ Alliances</li> <li>➤ British Involvement</li> <li>➤ First Nations Involvement</li> <li>➤ French Involvement</li> <li>➤ Hudson's Bay Company</li> <li>➤ North West Company</li> <li>➤ Phases</li> </ul> </li> <li>❖ <b>Historical Personalities</b> <ul style="list-style-type: none"> <li>➤ Authors</li> <li>➤ Explorers</li> <li>➤ Politicians</li> <li>➤ Prime Ministers</li> <li>➤ Top 10 Canadians</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>❖ <b>Immigration</b> <ul style="list-style-type: none"> <li>➤ Settlement Patterns</li> <li>➤ Pier 21</li> <li>➤ Policies</li> </ul> </li> <li>❖ <b>New France</b></li> <li>❖ <b>North West Mounted Police</b> <ul style="list-style-type: none"> <li>➤ Alcohol Trade</li> <li>➤ Conflict Resolution (solving problems)</li> <li>➤ Controlling the West</li> <li>➤ Early Settlement</li> <li>➤ National Police</li> <li>➤ Protecting Canada</li> </ul> </li> <li>❖ <b>Other – please talk to your teacher first for approval of other ideas</b></li> <li>❖ <b>Railway</b> <ul style="list-style-type: none"> <li>➤ Chinese Workers</li> <li>➤ Impact on Economy</li> <li>➤ Political &amp; Financial Reasons</li> <li>➤ Western Settlement</li> </ul> </li> <li>❖ <b>Red River Rebellion</b></li> <li>❖ <b>Rupert's Land</b> <ul style="list-style-type: none"> <li>➤ Charter</li> <li>➤ Hudson's Bay Water Basin</li> <li>➤ Selling Land to Canadian Government</li> <li>➤ Spreading / Moving West</li> </ul> </li> <li>❖ <b>War of 1812</b> <ul style="list-style-type: none"> <li>➤ Battle at Niagara</li> <li>➤ Montreal</li> <li>➤ Reasons for the War</li> <li>➤ United Empire Loyalist</li> </ul> </li> </ul> |
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## ⚙️ Pavilion – You completed this earlier in the year.

- **Partner Requirements – To combine / connect the two pavilions together in a useful and effective manner.**
- Your submitted work must include:
  - A floor plan (drawn with a ruler, on blank paper, labelled and neat)
  - Your selections from various building options (see below)
  - A spreadsheet tracking your budget (amount of money spent)
  - A circle graph showing the amount of money you spent on each category
  - A written explanation of your building material choices supported by research
- **Plan Details**
  - There are 4 categories with various options to choose from. Each option has a specific amount of money it will cost. Make **one** selection from each category and keep track of the spending on your spreadsheet.
  - You will be allowed to spend a **maximum of \$250 000**
  - Provide a written explanation of your building material choices. You will need research each option to explain why you selected the materials you did.
  - **Structural Materials**

▪ Wood frame		\$30 000
▪ Steel girder / cement		\$100 000
▪ SIP (Structural Insulated Panels)		\$40 000
▪ ICF (Insulated Cement Forms)		\$60 000
  - **Heating**

▪ Natural gas		\$10 000
▪ Electric - coal		\$10 000
▪ Geothermal		\$40 000
▪ Wind		\$40 000
▪ Passive solar		\$20 000 + half of one of choices above
▪ Active solar (includes passive)		\$80 000
  - **Insulation**

▪ Styrofoam board	(R-10)	\$20 000
▪ Fibreglass	(R-20)	\$60 000
▪ Spray foam	(R-40)	\$80 000
  - **Windows**

▪ Single pane		\$30 000
▪ Double pane		\$60 000
▪ Triple pane		\$90 000
  - **Eco-Friendly Options**

• Air to air exchanger	\$20 000 (will save heating cost by 20%)
• Underfloor heating	\$20 000 (requires active solar) – saves 12% of the TOTAL building cost
- **Pavilion Floor Plan**
  - You will draw a floor plan of your pavilion done to scale – be sure to use a ruler
  - Calculate the square footage (m<sup>2</sup>) of your pavilion

- You will need to include the following on your drawing:
  - Location of all windows, doors

**By the end of this project, you have:**

- ☐ Selected building structural materials, energy, insulation, windows, and options, if needed, making sure to spend no more than \$250 000
- ☐ Draw a neat and legible floor plan
- ☐ Included a written explanation of your building material choices supported by research
- ☐ Created a spreadsheet tracking the amount of money you spent on each category  
Represented your spreadsheet data in a circle graph showing the amount of money you spent on each category

## **Pavilion & Expansion Plan / Layout:**

- **Partner Requirements – To combine / connect the two pavilions together in a useful and effective manner and then use the new large double pavilion for this project.**
- You will be using the pavilion(s) that you designed earlier this year to host the different projects for your expansion. Now you must decide which projects you are going to include in your pavilion.
  - Individuals
    - You will select **both projects** from Section 1 to complete.
    - You will select **3 projects** from Section 2 that will fit well with your theme and **fully develop one** of them.
  - Partners
    - You and your partner will select **both projects** from Section 1 to complete.
    - You and your partner will select **6 projects** from Section 2 that will fit well with your theme and **fully develop two** of them.
  - Everyone
    - Write a paragraph for each project in Section 2 explaining why you chose it and what you would plan to do.
      - Remember that individuals only have to select 3 and partners only need to select 6.
    - Come up with a creative name for your pavilion based on your theme/topic
    - Updated floor plan / layout to show where each project will be located and how the space will be divided up
    - Show where required facilities for public buildings such as exits and washrooms are located.
    - Show the direction that you would like the public to walk through your pavilion.

### **By the end of this project, you have:**

- ☐ Selected 2 projects from Section 1 to complete
- ☐ Selected 3 or 6 projects from Section 2 that fit well with your theme & selected 1 or 2 to complete
- ☐ Wrote a paragraph for each project in Section 2 explaining why you chose it and what you would plan to do.
- ☐ Provided a creative name for your pavilion based on your theme/topic
- ☐ Updated the pavilion floor plan with the required facilities
- ☐ Demonstrated the direction the public will walk through the pavilion

## **Section 1:** *(Required by all students)*

### **✿ Canadian Creator(s) Connection**

- **Partner Requirements: Each person is required to do a Canadian Creator Connection to display in your pavilion.**
- It is always interesting to find out about the people behind the work and for this it will be even more interesting to see how you are connected to Canada and will be for many years to come.
- Your goal is to answer the following questions: **What Canadian value is the most important to me and my family? How has Canada made my family's life better? How has my family contributed to making Canada a better place to live?** and create a plaque/poster display to share this.
  - Where do we go to find answers to these questions? Individual and collective values of Canadians present themselves everywhere – in our family histories, our art, our prized possessions, the places in which we live, the people who help shape who we are, our celebrations and traditions. Where we are as Canadians is where we have been and where we are going.
- You must meet the following requirements:
  - Create a list of at least 10 Canadian values
  - Interview your family (parents, grandparents, aunts, uncles, etc.) to find out what Canadian value is the most important to them and why. Also ask them about how Canada has made your family's life better and what your family has done to make Canada better.
    - Use a chart or some other means to collect and organize your information.
  - Based on the information that you have gathered you are going to create a plaque/poster type display that will be put on the outside of your pavilion explaining a bit about who you are and how you are connected to Canada.
    - Make sure to include your answers to the questions.
    - Plaque/poster can either be done in a written, visual, or mixed format. If you have other ideas please ask.
    - You may also wish to include a small piece about your family history (where they immigrated from, how long they have been in Canada, etc).

#### **By the end of this project, you have:**

- ☐ Created a list of at least 10 Canadian values
- ☐ Interviewed your family to gather information that will help you answer the questions:
  - ☐ What Canadian value is the most important to me and my family?
  - ☐ How has Canada made my family's life better?
  - ☐ How has my family contributed to making Canada a better place to live?
- ☐ Used a chart or some other means to collect and organize your information
- ☐ Designed an engaging plaque/poster, in a written, visual, or mixed format, that explains a bit about who you are and how you are connected to Canada by answering the questions.

## ⚙️ Native Ecosystem

- **Partner Requirements: Each person is required to do their own Native Ecosystem.**
- Your goal is to create a native ecosystem at Heritage Park.
- Your ecosystem must meet the following requirements:
  - Must include plants native to the this area
  - Must include animals that live (or used to live) in this area
  - Must include an artifact that relates to your theme for Heritage Park (bath, bench, statue)
  - Must include a pathway for visitors to follow
  - Must include a minimum of 2 circular areas
- **Ecosystem Layout**
  - Your ecosystem needs to be created by you and may be a 3D model, drawn on paper or created using software.
  - Your ecosystem may be of any size
  - Minimum of 2 circles – measurements, area and perimeter included
- **Plants/Animals**
  - Include the name of your plants and animals as well as a picture, 3D representation, or sketch of the plant.
  - In sentences, provide reasons for your plant selections. Include information about availability of water, sun, growing season, and zone.
  - In sentences, provide reasons for your plant and animal selections. Include information about food webs, symbiotic relationships and the effect of habitat loss on these species.
- **Artifact**
  - Show the placement of the artifact in the ecosystem
  - In sentences, provide clear reasons why you selected the artifact and how it supports the overall Heritage Park Expansion theme.
  - Include a picture, 3D representation or sketch of your artifact.

### **By the end of this project, you have:**

- ☐ Designed the ecosystem using circles, an artifact, plants and animals
- ☐ Created the ecosystem by making a 3D model, drawing it, or creating it using design software
- ☐ Included measurements/units on the circles, including calculations for area and perimeter
- ☐ Selected plants and animals native to Southern Alberta
- ☐ Provided name for each plant/animal and reasons for each of your plant selections
- ☐ Decided where to place the artifact and provided clear reasons for selecting the artifact based on how it supports the overall Heritage Park Expansion theme
- ☐ Included a picture, 3D representation, or sketch of the artifact.

**Section 2:** (*Individuals select 3 projects in Section 2 for your expansion and partners select 6 projects in Section 2 for your expansion.*)

**⚙ Ride**

- Design a ride that reflects your theme of your Heritage Park expansion.
- Provide a detailed blueprint done on grid paper.
- It should include: Title, legend, scale, labels. Make sure to use a straight edge and all labelling needs to be done horizontally.
- Make a sign with pictures about the safety rules for visitors while on the ride.
- Now build the ride. You may choose to use 3D design software like Google SketchUp or build one by hand. If you have a different way to build the model, check in with a teacher.

**By the end of this project, you have:**

- ☐ Created the ride by making a 3D model, drawing it, or creating it using design software
- ☐ Included measurements/units on the circles
- ☐ Identified structural forms in the ride (Ex. skeletal, mass, shell)
- ☐ Included functions of specific parts of the ride
- ☐ Identified potential weak areas for possible failure of ride
- ☐ Explained how your ride meets acceptable safety standards (research safety standards)
- ☐ Created a sign with pictures about the safety rules for visitors while on the ride.

**⚙ Game**

- This task involves creating an original game that reflect the theme you have chosen.
- The game you create must have an element of chance and you must provide all of the rules and regulations for the game.
- In your description of the game you must include the probabilities within the game and how a participant can win.
- In creating a model of the game you should include a diagram of the space that the game is played in as well as any equipment necessary.
- Explain/list the prizes available when playing the game

**By the end of this project, you have:**

- ☐ Explained the mathematical concepts behind your game thoroughly
- ☐ Constructed a circle graph to show the chance of winning each prize
- ☐ Created a model of the game – either a drawing or 3-D model
- ☐ Defined the rules of the game well
- ☐ Explained/listed prizes for the game
- ☐ Included appropriate equipment to play the game



## ⚙️ Store & Product/souvenir

- Design a product for a gift shop at your Heritage Park expansion and build a prototype of the product keeping in mind the following:
  - The types of products which would have appeal to the population represented in your theme.
  - Method of wrapping, construction used during the selected time period.
  - Example: Salt Water Taffy was big as a candy item and was wrapped in a twist of colourful paper.
- Your product construction must include the following items for presentation:
  - A model (prototype) of the product being sold or marketed. (This could be represented in a variety of formats including Google SketchUp, a real model of the item in any material, etc)
  - A print advertisement (minimum 8.5 x 11) outlining the main selling features of the product. (This could be created on paper in color, on Glogster, in Illustrator, Indesign, Publisher, Prezi..... or any layout software such as Word.)
  - Calculations for cost per item inclusive of any tax. Calculate the price inflation to determine a price that would be applicable for that time period (These calculations are to be represented in a spreadsheet Chart for costs.)

### By the end of this project, you have:

- ☐ Created product design illustrations (this can be done by hand or on a computer)
- ☐ Calculated the price, including taxes and GST (in Excel)
- ☐ Created a model of product (2D is good, but 3D is even better)
- ☐ Made a well-designed advertisement for the main features of the product. This poster includes effective advertising techniques (research advertising techniques). The advertisement can be print, video, or something else (check with your teacher).

## ⚙️ Restaurant

- Create an authentic, themed menu for a restaurant in your Heritage Park expansion.
- Cook a sample for your presentation.
- Price the item so you will make money.
- Incorporate Canada's Food Guide and provide a description of how you did this. You can access it here: <http://www.hc-sc.gc.ca/fn-an/food-guide-aliment/index-eng.php>

### By the end of this project, you have:

- ☐ Created a well-designed menu entry describing your meal. The design of the menu has been carefully considered and all decisions were made for a reason.
- ☐ Ensured the meal fits with the theme of your expansion. All menu items reflect your theme.
- ☐ Made sure that the price of your meal is a good balance between profit and affordability and calculations that reflect this have been included.
- ☐ Ensured that the meal includes at least four items that represent the categories in Canada's food guide.
- ☐ Cooked a well-prepared sample of your menu for your presentation.

## ⚙️ Interpretive Station

- You are to design a station where visitors can learn about the theme/historic event of your park. This station should be interactive, so visitors are entertained and informed. Think of the best interactive displays you have seen. Can you use some ideas from those displays?
- Interactive Display Possibilities:
  - Video and/or images
  - Maps
  - Audio
  - Create website
  - Role playing
  - Text
  - Tell a story of a real person or real people
  - Questions and answers
  - Quizzes
  - Flash animation
  - "What if" Game. Visitors make predictions of what Canada would be like if this historic event had not happened or if the results of the event were different.
  - Video Game – <http://www.yoyogames.com/>
  - Other

### By the end of this project, you have:

- ☐ Ensured the theme is clearly evident
- ☐ Explored at least 5 different sources for gathering information
- ☐ Explored how the theme/event impacted Canadian history
- ☐ Explored the factors that led to the event/theme
- ☐ Included at least 5 visuals
- ☐ Presented information in a creative and entertaining manner

## ⚙️ Costume

- You would like your interpreters to wear authentic costumes while they're interacting with the public. It is very important to the historic/theme park that the fashions are historically accurate!
- Follow these steps:
  - Step 1: Sketch and label your ideas
  - Step 2: Create your costumes. This can be done 2D or 3D. The more detailed these prototypes are, the better. If you can, include fabric samples.
  - Step 3: Incorporate a written aspect that includes why you chose these fashions to showcase. Why they are important to the time period?

### By the end of this project, you have:

- ☐ A book of sketches with all costume pieces labelled in English
  - ☐ A book of final/good copy 2D creations. Must have clear labelling and fabric samples.
- or--
- ☐ 3D creation of your costume pieces with labels
  - ☐ Written paragraphs on each costume piece describing why you chose these fashions to showcase and why they are important to the time period?

## ⚙️ Photo/Art gallery

- Included in your pavilion is an exhibit of a Canadian artist, cartoonist, or photographer whose specialty is artwork that fits in with the theme of your park expansion. The artist is donating five to ten pieces of art to your park.
- Your job, as curator, is to compile this artwork, and display it in an attractive manner.
- It's up to you to research how art galleries display pieces of art, because there is an art and a science to this (discover, for instance, symmetry, asymmetry, balance, measurements from the floor, etc.)
- Recreate your wall display on a tri-fold or piece of poster paper.
- Include a card under or beside each piece of art that includes the following information:
  - Name of artist
  - Title of piece of art
  - Year the art was created
  - Medium of artwork (i.e. Pencil on paper, photograph on paper, oil paint on canvas, etc.)
  - A description of the meaning of the piece of art and how the artists Culture influenced his/her work.
- **You will need to create the art, as well. It can be any medium, digital, physical, or photographic art.**
- The art gallery should be present at your pitch to Heritage Park officials.

### **By the end of this project, you have:**

- ☐ Included five to ten pieces of artwork.
- ☐ Displayed the artwork in an appropriate manner.
- ☐ Addressed symmetry/asymmetry, balance, gallery-style display, etc., and are able to explain why you made the choices you did in terms of the display of the artwork.
- ☐ Reflected your theme in the content of the art/photos.
- ☐ Demonstrated a thorough understanding of your theme through the art/photos. The viewers learn information about your theme through your display.
- ☐ Included key concepts in the card displayed with your art and how your Culture influenced your work.
- ☐ Included a thorough understanding of your theme in terms of the facts and information you include in your description of each piece of art.

**Continued on next page ...**

## ⚙️ **Showstage**

- You are including a grandstand in your plans for your park expansion.
- You will invite local groups who have shows in fitting with your theme to perform on your stage.
- Select (and create) an act that fits with your theme and informs the audience about your theme. The act can be any type of entertainment: a dance, song/band, skit, comedy act, puppet show... anything, as long as it reflects your theme.
- You will need to video tape or perform your act at the pitch to Heritage Park officials. You will also need to create an introduction

### **By the end of this project, you have:**

- ☐ Created a Showstage act to fit your theme.
- ☐ Prepared an introduction to your act that explains how the show reflects the theme.
- ☐ Demonstrated an understanding of the theme in your introduction and the interpretation of your theme in your show.
- ☐ Informed your audience how the show can teach us about the theme.

## ⚙️ **Sculpture**

- Create a small scale model that depicts a significant event, place, or person in the theme you chose.
- You need to include a write up that explains the significance of this event, place, or person.
- This model can be done using a digital 3D tool like Google Sketch or can be built by hand using wood, metal, plastics, or other materials that you think will work.

### **By the end of this project, you have:**

- ☐ Included a description of the event
- ☐ Created a well-designed model of the specific event, place, or person, in either 3D or 2D (If 2D then complete an orthographic drawing)
- ☐ Informed your audience about the significance of the event, place, or person, and taught them key factors related to your theme
- ☐ Explored how the theme/event impacted Canadian history

- ⚙️ **Other** – Propose something to your teacher. Present your idea and an action plan to your teacher if you wish to take this route.

### **By the end of this project, you have:**

- ☐ Discussed requirements with your teacher.

## **Presentation to the Board of Directors – Summary / Planning**

Presentations are limited to 5 minutes (7 minutes for a partnership). Be prepared for your presentations with all digital materials saved on a USB and all parts of your expansion with you and ready to be displayed. The more detail you provide in your presentation, the better. Please fill out, and use the following format as a guide for your presentation:

1. A brief introduction to your project.
2. An explanation of your theme / topic
3. What are your Canadian values and how has your family made Canada better?
4. A description of your ecosystem.
5. What selections will be in your pavilion?
6. Why should ILMTZ & Associates award you the \$10 000 000?

# Checklist

Use this checklist to stay organized and to keep track of what you have done and what you still have to do. Please check off the items as you complete them.

<h2>Overall Project</h2>	
	<div> <input type="checkbox"/> Decided if I will work with a partner or by myself         <input type="checkbox"/> Long Range Calendar Plan is completed       </div> <div> <input type="checkbox"/> Selected a theme/topic for my expansion         <input type="checkbox"/> Daily Work Logs are thoroughly completed       </div> <div> <input type="checkbox"/> Pavilion finished earlier in the year.         <input type="checkbox"/> Project is fully completed and ready to present       </div> <div> <input type="checkbox"/> Completed a plan of action for organizing time         <input type="checkbox"/> Presentation Planning / Summary is completed       </div> <div> <input type="checkbox"/> Research is completed and referenced using proper format         <input type="checkbox"/> Checklist is completed       </div>
<b>Pavilion</b>	<input type="checkbox"/> Selected 2 projects from Section 1 to complete <input type="checkbox"/> Selected 3 or 6 projects from Section 2 that fit well with your theme & selected 1 or 2 to complete <input type="checkbox"/> Wrote a paragraph for each project in Section 2 explaining why you chose it and what you would plan on doing for it. <input type="checkbox"/> Provided a creative name for your pavilion based on your theme/topic <input type="checkbox"/> Updated the pavilion floor plan with the required facilities <input type="checkbox"/> Demonstrated the direction the public will walk through the pavilion
<b>Section 1 (Complete 2 Projects)</b>	<p><b>Canadian Creator(s) Connection</b></p> <input type="checkbox"/> Created a list of at least 10 Canadian values <input type="checkbox"/> Interviewed your family to gather information that will help you answer the questions: <div> <input type="checkbox"/> What Canadian value is the most important to me and my family?           <input type="checkbox"/> How has Canada made my family's life better?           <input type="checkbox"/> How has my family contributed to making Canada a better place to live?         </div> <input type="checkbox"/> Used a chart or some other means to collect and organize your information <input type="checkbox"/> Designed an engaging plaque/poster, in a written, visual, or mixed format, that explains a bit about who you are and how you are connected to Canada by answering the questions.
	<p><b>Native Ecosystem</b></p> <input type="checkbox"/> Designed the ecosystem using circles, an artifact, plants and animals <input type="checkbox"/> Created the ecosystem by making a 3D model, drawing it, or creating it using design software <input type="checkbox"/> Included measurements/units on the circles, including calculations for area and perimeter <input type="checkbox"/> Selected plants and animals native to Southern Alberta <input type="checkbox"/> Provided name for each plant/animal and reasons for each of your plant selections <input type="checkbox"/> Decided where to place the artifact and provided clear reasons for selecting the artifact based on how it supports the overall Heritage Park Expansion theme. <input type="checkbox"/> Included a picture, 3D representation, or sketch of the artifact

Checklist continued on the next page ...

**Section 2**  
**(Complete 1 or 2 Projects)**

**Ride**

- ☐ Created the garden by making a 3D model, drawing it, or creating it using design software
- ☐ Included measurements/units on the circles
- ☐ Identified structural forms in the ride (Ex. skeletal, mass, shell)
- ☐ Included functions of specific parts of the ride
- ☐ Identified potential weak areas for possible failure of ride
- ☐ Explained how your ride meets acceptable safety standards (research safety standards)
- ☐ Created a sign with pictures about the safety rules for visitors while on the ride.

**Game**

- ☐ Explained the mathematical concepts behind your game thoroughly
- ☐ Constructed a circle graph to show the chance of winning each prize
- ☐ Created a model of the game – either a drawing or 3-D model
- ☐ Defined the rules of the game well
- ☐ Explained/listed prizes for the game
- ☐ Included appropriate equipment to play the game

**Store & Product/Souvenir**

- ☐ Created product design illustrations (this can be done by hand or on a computer)
- ☐ Calculated the price, including taxes and GST (in Excel)
- ☐ Created a model of product (2D is good, but 3D is even better)
- ☐ Made a well-designed advertisement for the main features of the product. This poster includes effective advertising techniques (research advertising techniques). The advertisement can be print, video, or something else (check with your teacher).

**Restaurant**

- ☐ Created a well-designed menu entry describing your meal. The design of the menu has been carefully considered and all decisions were made for a reason.
- ☐ Ensured the meal fits with the theme of your expansion. All menu items reflect your theme.
- ☐ Made sure that the price of your meal is a good balance between profit and affordability and calculations that reflect this have been included.
- ☐ Ensured that the meal includes at least four items that represent the categories in Canada's food guide.
- ☐ Cooked a well-prepared sample of your menu.

**Interpretive Station**

- ☐ Ensured the theme is clearly evident
- ☐ Explored at least 5 different sources for gathering information
- ☐ Explored how the theme/event impacted Canadian history
- ☐ Explored the factors that led to the event/theme
- ☐ Included at least 5 visuals
- ☐ Presented information in a creative and entertaining manner

**Costume**

- ☐ A book of sketches with all costume pieces labelled in English
- ☐ A book of final/good copy 2D creations. Must have clear labelling and fabric samples.
- or--
- ☐ 3D creation of your costume pieces with labels
- ☐ Written paragraphs on each costume piece describing why you chose these fashions to showcase and why they are important to the time period?

**Section 2 cont.**  
**(Complete 1 or 2 Projects)**

**Photo/Art Gallery**

- ☐ Included five to ten pieces of artwork.
- ☐ Displayed the artwork in an appropriate manner.
- ☐ Addressed symmetry/asymmetry, balance, gallery-style display, etc., and are able to explain why you made the choices you did in terms of the display of the artwork.
- ☐ Reflected your theme in the content of the art/photos.
- ☐ Demonstrated a thorough understanding of your theme through the art/photos. The viewers learn information about your theme through your display.
- ☐ Included key concepts in the card displayed with your art and how your Culture influenced your work.
- ☐ Included a thorough understanding of your theme in terms of the facts and information you include in your description of each piece of art.

**Showstage**

- ☐ Created a Showstage act to fit your theme.
- ☐ Prepared an introduction to your act that explains how the show reflects the theme.
- ☐ Demonstrated an understanding of the theme in your introduction and the interpretation of your theme in your show.
- ☐ Informed your audience how the show can teach us about the theme.

**Sculpture**

- ☐ Included a description of the event
- ☐ Created a well-designed model of the specific event, place, or person, in either 3D or 2D (If 2D then complete an orthographic drawing)
- ☐ Informed your audience about the significance of the event, place, or person, and taught them key factors related to your theme
- ☐ Explored how the theme/event impacted Canadian history

**Other**

- ☐ Discussed requirements with your teacher.



## Long Range Calendar Plan

<b>Day 1 – Date:</b>	<b>Day 2 – Date:</b>	<b>Day 3 – Date:</b>
Humanities Class:	Humanities Class:	Humanities Class:
Math Class:	Math Class:	Math Class:
Science Class:	Science Class:	Science Class:
<b>Day 4 – Date:</b>	<b>Day 5 – Date:</b>	<b>Day 6 – Date:</b>
Humanities Class:	Humanities Class:	Humanities Class:
Math Class:	Math Class:	Math Class:
Science Class:	Science Class:	Science Class:
<b>Day 7 – Date:</b>	<b>Day 8 – Date:</b>	<b>Day 9 – Date:</b>
Humanities Class:	Humanities Class:	Humanities Class:
Math Class:	Math Class:	Math Class:
Science Class:	Science Class:	Science Class:

*\*Elements to include in your long-range calendar plan include: planning time, researching information for the different projects, planning the projects, creating / designing the projects, working on the projects, and making sure that each project fits with the overall theme/topic of your Heritage Park Expansion.*

## Daily Work Log

<b>Name:</b>		<b>Date:</b>	
<b>Goal for today:</b>			
<b>What I accomplished today:</b>			
<b>What is my goal for tomorrow:</b>			
<b>Self Assessment:</b> <i>1 = strongly disagree, 5 = strongly agree</i>		<b>What do I need to bring tomorrow:</b>	
I used all of my class time effectively: 1 2 3 4 5			
I stayed on task throughout the periods: 1 2 3 4 5			

<b>Name:</b>		<b>Date:</b>	
<b>Goal for today:</b>			
<b>What I accomplished today:</b>			
<b>What is my goal for tomorrow:</b>			
<b>Self Assessment:</b> <i>1 = strongly disagree, 5 = strongly agree</i>		<b>What do I need to bring tomorrow:</b>	
I used all of my class time effectively: 1 2 3 4 5			
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<b>Name:</b>		<b>Date:</b>	
<b>Goal for today:</b>			
<b>What I accomplished today:</b>			
<b>What is my goal for tomorrow:</b>			
<b>Self Assessment:</b> <i>1 = strongly disagree, 5 = strongly agree</i>		<b>What do I need to bring tomorrow:</b>	
I used all of my class time effectively: 1 2 3 4 5			
I stayed on task throughout the periods: 1 2 3 4 5			

<b>Name:</b>	<b>Date:</b>
<b>Goal for today:</b>	
<b>What I accomplished today:</b>	
<b>What is my goal for tomorrow:</b>	
<div style="display: flex; justify-content: space-between;"> <div style="width: 55%;"> <b>Self Assessment:</b> <i>1 = strongly disagree, 5 = strongly agree</i>            I used all of my class time effectively:    1    2    3    4    5            I stayed on task throughout the periods: 1    2    3    4    5         </div> <div style="width: 40%; border-left: 1px solid black; padding-left: 10px;"> <b>What do I need to bring tomorrow:</b> </div> </div>	

<b>Name:</b>	<b>Date:</b>
<b>Goal for today:</b>	
<b>What I accomplished today:</b>	
<b>What is my goal for tomorrow:</b>	
<div style="display: flex; justify-content: space-between;"> <div style="width: 55%;"> <b>Self Assessment:</b> <i>1 = strongly disagree, 5 = strongly agree</i>            I used all of my class time effectively:    1    2    3    4    5            I stayed on task throughout the periods: 1    2    3    4    5         </div> <div style="width: 40%; border-left: 1px solid black; padding-left: 10px;"> <b>What do I need to bring tomorrow:</b> </div> </div>	

<b>Name:</b>	<b>Date:</b>
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<b>What is my goal for tomorrow:</b>	
<div style="display: flex; justify-content: space-between;"> <div style="width: 55%;"> <b>Self Assessment:</b> <i>1 = strongly disagree, 5 = strongly agree</i>            I used all of my class time effectively:    1    2    3    4    5            I stayed on task throughout the periods: 1    2    3    4    5         </div> <div style="width: 40%; border-left: 1px solid black; padding-left: 10px;"> <b>What do I need to bring tomorrow:</b> </div> </div>	

<b>Name:</b>		<b>Date:</b>	
<b>Goal for today:</b>			
<b>What I accomplished today:</b>			
<b>What is my goal for tomorrow:</b>			
<b>Self Assessment:</b> <i>1 = strongly disagree, 5 = strongly agree</i>		<b>What do I need to bring tomorrow:</b>	
I used all of my class time effectively: 1 2 3 4 5			
I stayed on task throughout the periods: 1 2 3 4 5			

<b>Name:</b>		<b>Date:</b>	
<b>Goal for today:</b>			
<b>What I accomplished today:</b>			
<b>What is my goal for tomorrow:</b>			
<b>Self Assessment:</b> <i>1 = strongly disagree, 5 = strongly agree</i>		<b>What do I need to bring tomorrow:</b>	
I used all of my class time effectively: 1 2 3 4 5			
I stayed on task throughout the periods: 1 2 3 4 5			

<b>Name:</b>		<b>Date:</b>	
<b>Goal for today:</b>			
<b>What I accomplished today:</b>			
<b>What is my goal for tomorrow:</b>			
<b>Self Assessment:</b> <i>1 = strongly disagree, 5 = strongly agree</i>		<b>What do I need to bring tomorrow:</b>	
I used all of my class time effectively: 1 2 3 4 5			
I stayed on task throughout the periods: 1 2 3 4 5			

## Section 1 – Canadian Creator(s) Connection

	Master Historian	Experienced Historian	Apprentice Historian	Rookie Historian
<b>Connection to Canada</b>	The three questions are answered and show thoughtful insight into Canadian values, the impact of Canada on you and your family, and the contributions your family has made to better Canada. The connections are strong, personal, and reflect a consideration of all information gathered.	The three questions are answered and show some thoughtful insight into Canadian values, the impact of Canada on you and your family, and the contributions your family has made to better Canada. The connections reflect a consideration of all information gathered.	The three questions are answered and cover Canadian values, the impact of Canada on you and your family, and the contributions your family has made to better Canada. The connections reflect a consideration of some of the information gathered.	One of the questions may not be answered or does not cover Canadian values, the impact of Canada on you and your family, and the contributions your family has made to better Canada. A connection is not made or reflects a minimal understanding of the information gathered.
<b>Interview</b>	Chart shows that various and multiple family members were questioned, where possible. Chart is well organized and reflects that a great deal of thought and effort was put into asking the questions and recording the answers.	Chart shows that various and multiple family members were questioned, where possible. Chart is organized and reflects that some thought and effort was put into asking the questions and recording the answers.	Chart shows that a few family members were questioned, where possible. Chart may not be organized but still reflects that some thought and effort was put into asking the questions and recording the answers.	Chart shows that very few or no family members were questioned, where possible. Chart is not organized and shows little or not thought was put into asking the questions and recording the answers.
<b>Plaque / Poster</b>	Plaque / poster is free of mechanical and grammatical errors. Writing and/or visuals are clear, precise, and create an in depth understanding of the connections you have to Canada	Plaque / poster has a few mechanical or grammatical errors but they do not distract from the work. Writing and/or visuals create a better understanding of the connections you have to Canada	Plaque / poster has a number of mechanical or grammatical errors and they may distract from the work. Writing and/or visuals attempt to create a better understanding of the connections you have to Canada	Plaque / poster has many mechanical or grammatical errors and this distracts from the work. Writing and/or visuals do not create a better understanding of the connections you have to Canada

## Section 1 – Native Ecosystem

	Master Ecologist	Experienced Ecologist	Apprentice Ecologist	Rookie Ecologist
<b>Calculations</b>	Uses precise calculations, provided thorough steps and units	Uses precise calculations, includes most steps and units	Some calculations are correct, some steps are missing	Calculations are not correct, steps are not shown with units
<b>Plants/Animals</b>	Provides a compelling explanation using precise scientific vocabulary.	Provides a meaningful explanation using effective scientific vocabulary.	Provides a plausible explanation using simplistic scientific vocabulary.	Provides a vague explanation using an incorrect scientific vocabulary.
<b>Ecosystem Interactions</b>	Represents the interactions between the theme, circles, plants, animals, and flow of traffic in an innovative and insightful way.	Represents the interactions between the theme, circles, plants, animals, and flow of traffic in a thoughtful way.	Represents the interactions between the theme, circles, plants, animals, and flow of traffic in a simplistic or superficial way.	Represents the interactions between the theme, circles, plants, animals, and flow of traffic in a vague way.

## Section 2 Projects

	<b>Master Designer / Builder</b>	<b>Experienced Designer / Builder</b>	<b>Apprentice Designer / Builder</b>	<b>Rookie Designer / Builder</b>
<b>Requirements</b>	All requirements are completed in ways that work together to enhance the understanding of the theme and the expansion.	All requirements are completed in ways that work together to show an understanding of the theme and the expansion.	All requirements are completed and show a basic understanding of the theme and the expansion.	Some requirements are completed and may show a basic understanding of the theme and the expansion.
<b>Theme / Topic</b>	Project(s) represent the Heritage Park Expansion theme in an insightful way	Project(s) represent the Heritage Park Expansion theme in a thoughtful way	Project(s) represent the Heritage Park Expansion theme in a simplistic or superficial way	Project(s) represent the Heritage Park Expansion theme in a vague way
<b>Complexity</b>	Project(s) is highly innovative and ideas work well together at an elevated level of thinking and understanding.	Project(s) has strong ideas with a good connection between features.	Project(s) has good ideas with some connections between features.	Project(s) ideas were basic. There are few if any connections made between features.

## Overall Project

	<b>Master Planner</b>	<b>Experienced Planner</b>	<b>Apprentice Planner</b>	<b>Rookie Planner</b>
<b>Planning &amp; Logs</b>	Plans and work log are thorough and have been completed & organized in a thoughtful way to ensure that all expansions are completed on time	Plans and work log have been completed in a thoughtful & organized way to ensure that all expansions are completed on time	Plans and work log have been completed to ensure that all expansions are completed on time	Plans and work log are incomplete, or lacking thought. As a result use of class time may not be well used.
<b>Research &amp; Referencing</b>	Notes are in your own words and are organized. Information relates to the theme/topic or project(s) and contains many specific details. A large variety of sources are used for in-depth research. All resources are referenced in the proper format	Notes are in your own words and show some organization. Information generally relates to the theme/topic or project(s) and contains some details. A variety of sources are used for general research. An attempt is made to reference using the proper format	Notes are in your own words and show little organization. Little evidence of research or predictable ideas and information. Few sources are used for basic research. Minimal attempt is used to reference using the proper format	Notes are not in your own words are not organized. Very little information is included and referencing may not have been completed. Was research even done?
<b>Expansion Complexity</b>	Entire expansion is highly innovative and ideas work well together at an elevated level of thinking and understanding.	Entire expansion has strong ideas with a good connection between features.	Entire expansion has decent ideas with some connections between features.	Entire expansion ideas were basic. There are few if any connections made between features.
<b>Presentation to the Board of Directors</b>	Presentation is within the time limit. All required components are covered in the presentation and it is engaging and convincing	Presentation is within the time limit. All required components are covered in the presentation and an attempt is made to be engaging and convincing	Presentation is within the time limit and all required components are covered in the presentation.	Presentation may not be within the time limit, and some components are missing from the presentation.
<b>Overall Expansion Theme / Topic</b>	All projects represent the Heritage Park Expansion theme in an insightful way that shows an in-depth understanding	All projects represent the Heritage Park Expansion theme in a thoughtful way	All projects represent the Heritage Park Expansion theme in a simplistic or superficial way	All projects represent the Heritage Park Expansion theme in a vague way