

# SJAM - CGL231 - MODEL SUSTAINABLE HOME PROJECT (Summative)

Name: \_\_\_\_\_

**GOAL:** To apply sustainable concepts and sustainable home alternatives in the construction of a model home.

**RESOURCES:** Internet (esp. REEP House website), class notes, textbook, school resources, materials to build your sustainable home.

**TASK:** With your group, you will create a model sustainable home which highlights the ideas of sustainability, energy and water efficiency, and a reduced ecological footprint. The design for the home will also have some clear link(s) to the sustainable community of which it is a part.

## GROUP MEMBERS:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Email: \_\_\_\_\_

## PART A:

- Individually, create a list of features you think should be included in your sustainable home. Some ideas may include the various building materials, structure, layout, energy and/or water efficient appliances, unique features etc.
- Compare your list with your group members. Decide as an entire group what features you would like to include in your model home.

## PART B:

- Begin by creating a **preliminary layout** for your sustainable home. This is a rough sketch, for ideas only. At this stage, just focus on the overall structure (exterior) of your sustainable home.
- Make sure you consider the house's orientation (the direction it faces), location, landscaping features and the number of stories.
- Create a **second drawing** to show a rough interior layout of the house as well as the sustainable features within each room (ie. composting toilet. PET carpeting, ceiling fan etc.)

- At this stage, you may be able to consider an addition to deal with food sustainability also.
- As a group, revise your drawing and create a final blue print of your sustainable home.

**PART C:**

- Decide with your group what material will be needed to build your model home.
- Begin construction of your model home.
- Ensure that an approximate scale is maintained during the building process. Make sure this scale as well as a north arrow is included with your model.

**PART D:**

- On the separate piece of paper provided, create an analysis chart. This chart will examine each floor of your house and include a description about why your home alterations are considered "sustainable".

**PART E:**

- Create a brief presentation to showcase your sustainable model home. This presentation must be approximately 4-5 minutes in length.

**CHECKLIST:**

- House constructed**
- Diagram/blue print showing internal features**
- Analysis chart completed**
- Plan for who will speak about what, and the necessary aspects of your presentation**

These two features could be completed on a PowerPoint, if desired.







