SJAM - CGL23I - 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
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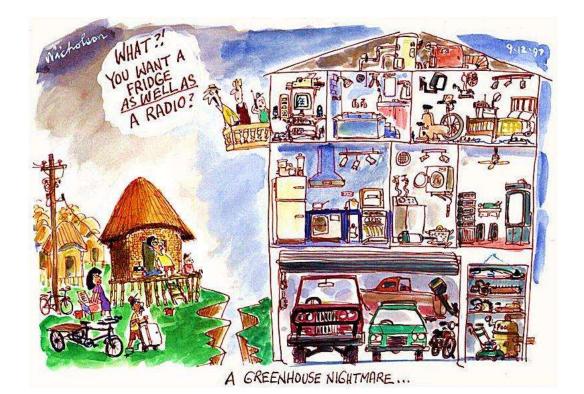
□ Diagram/blue print showing internal features

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

- □ Analysis chart completed
- □ Plan for who will speak about what, and the necessary aspects of your presentation

Please keep the following record to ensure that all members of the group share equal responsibility for the finished product:

Task	Name



Analysis chart – sustainable features included and rationale

Area	Sustainable feature	Description	Benefits
e.g. 1 st floor	Washing machine	Front-loading	Saves \$90/yr in energy costs

SJAM – CGL23I - MODEL SUSTAINABLE HOME PROJECT EVALUATION

	Level 4 (80-100%)	Level 3 (70-79%)	Level 2 (60-69%)	Level! (50-59%)
Appropriateness of Model	Exceptional depth of thought given to design of structure; model shows a high degree of thought in creation of sustainable home; model has several sustainable home alternatives included to exemplify the idea of living "sustainably"	Considerable depth of thought given to design of structure; model is complete and shows effort; most of the model illustrates the idea of a "sustainable" home; some sustainable home alternatives included	Some depth of thought given to design of structure; model lacks either completeness or effort in meeting criteria; some elements of model illustrate the idea of a "sustainable" home; few home alternatives included	Limited depth of thought given to design of structure; model lacks both completeness and effort; model does not illustrate the idea of a "sustainable" home; has a limited number of sustainable home alternatives.
/30	30-29-28-27 -26-25-24	23-22-21-20	19-18-17	16-15
Neatness	Great care taken in construction process so that the sustainable home model is neat and attractive.	Construction was careful and accurate for the most part, but 1-2 details could have been refined for a more attractive sustainable home model.	Construction accurately followed the plans, but 3-4 details could have been refined for a more attractive sustainable home model.	Construction appears careless or haphazard; many details need refinement for a strong or attractive sustainable model.
/5	5	4-3	2	1-0
Analysis Chart	Chart follows proper format; chart description effectively and accurately describes the design and sustainable home alternatives of the model with a high degree of detail; No spelling errors	Chart follows proper format; chart description effectively describe the design and sustainable home alternatives with moderate detail; few spelling errors	Chart somewhat follows the proper format; chart description does not adequately describe the design or sustainable home alternatives of the model; some spelling errors	Chart does not follow the proper format; chart description does not adequately describe the design or the sustainable home alternatives of the model; several spelling errors
/15	15-14-13	12-11	10-9	8-7
Presentation /10	Speaks clearly and distinctly all the time; eye contact, facial expressions and body language generate a strong interest and enthusiasm about the topic in others.	Speaks clearly throughout the presentation; eye contact, facial expressions and body language sometimes generate a strong interest and enthusiasm about the	Speaks clearly through some of the presentation, other times hard to understand; eye contact, facial expressions and body language are used with little interest generated or effectiveness.	Often mumbles or can not be heard; very little use of eye contact, facial expressions or body language; did not generate much interest in topic being presented.
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