**Grade 9 Geography**

**Designing a Sustainable Community**

**Culminating Activity**

**The G20 is looking to construct sustainable communities around the world to address the climate change issues. They have invited you to design sustainable communities and present your ideas to them during the next summit. The design team with the most detailed, thoroughly thought out and environmentally friendly design will be rewarded with the contract to construct sustainable communities all over the world. Good luck to all the designing teams!!**

**In groups of 2, you will design a sustainable community. Your final draft will be drawn on poster board, which will be supplied. You MUST submit a rough draft BEFORE you will be given the poster board.**

**PART I: The Rough Draft**

**You will submit to me:**

1. **A rough draft of your sustainable community. Remember to include all the features of a map.**
2. **A written report addressing the following:**
3. **The precise geographic location of your community: the country, continent and longitude and latitude**
4. **The ecozones(s), landforms and physical features**
5. **Why you chose that location in terms of physical geography including weather and climate**
	1. **Include if there are industries that your community is involved in that require those physical feature (for example, plains because you are using wind to power your entire community)**
6. **The industry or industries your community is involved in**
	1. **Where are you placing those industries?**
	2. **How will they operate?**
	3. **Why did you make those choices?**
	4. **What base industries will make up your economic base?**
	5. **What non-basic industries will your community have?**
	6. **Are you focusing on high-order, middle order or low-order goods and services and why?**
7. **Why did you place your services where you did?**
	1. **Water**
	2. **Sewer**
	3. **Power**
8. **What types of service systems will your community use?**
	1. **Type of Septic/sewer**
	2. **How will you deal with waste?**
	3. **How will you power your community?**
9. **What residential land use did you choose?**
	1. **Single detached, semi-detached, duplex, high rise apartments, low rise apartments, condominiums (p. 249)**
	2. **Why did you place them where you did?**
	3. **Why type of population distribution will your community have and why?**
	4. **What will your population density need to me to meet your threshold population?**
10. **Where did you place your transportation hub and why?**
	1. **What types of transportation will your community support and why?**
	2. **Justify your transportation land use choices (p. 250-1)**
11. **What resources will your community have and is your community resource-based?**
12. **Justify your locations and types of commercial land use (p. 251-55)**
13. **Are there any natural areas that will be protected in or around your community?**
14. **What will your rural land use patterns look like and why?**
	1. **Where will your farms be?**
	2. **What type of agricultural and farming will your community engage in and what will be the environmental impact?**
15. **Detail the governmental services (culture and recreation, postal service, health services, social services, defence, police and fire services, etc) will your community have and justify your choices and their locations. If you choose not to have public services, explain why and how the infrastructure will be maintained.**
16. **For EVERY aspect of your community EXPLAIN how your community will be sustainable and have the least amount of impact on the environment, minimal carbon footprint?**

**PART II: The Final Plan**

**AFTER your rough draft has been approved, you will be given the poster board to draw your final draft of your sustainable community.**

**Your final plan will include:**

1. **ALL the features of a map (see your features of a map handout from September)**
2. **Colour**
3. **Clearly printed labels**
4. **Any corrections recommended**
5. **Straight lines**

**YOU MUST hand in the rough draft, written explanation and final plan when finished for your final grade.**