

Professor Sandra Hersh  
Course Title: BSC 1050 – Biology and Environment

## **Sustainability Lesson Plan – Colonization Plan for Planet Incredibilia**

### **Learning Objective:**

Enhancing student awareness of sustainability and the concept of sustainable harvesting; Developing computational skills and critical thinking among students; Helping students develop commitment to the environment; Helping students become environmentally aware; Helping students understand the nature of self-sustaining ecosystems; Learning to make rational scientific and political choices in order to achieve a sustainable society

### **Instructional strategies:**

Divide class into four teams. Each team will compete with the others to come up with a “winning” colonization plan for the planet Incredibilia. The instructor will circulate among the teams to offer direction and insight into some of the challenges facing the colonists (students). The entire class will vote at the end of the class session to determine the best plan.

### **Assignment:**

Students on each team will receive the accompanying handout to explain the theoretical situation and have about forty minutes to design a colonization plan by answering the ten questions on the handout. Hold a “colonization committee” meeting at the end of the planning session to discuss the pros and cons of each of the four proposed plans. Then vote.

### **Assessment strategies:**

Each member of the team receives two grades:

1. One grade results from the written answers to the questions turned in to the instructor by each individual team member (individuals receive individual scores)
2. The second grade is a result of the team plan’s evaluation by the class (each team member receives the same team grade)