Detailed Course Structure: Scheduled class times will focus on interactive activities that will help deepen your understanding of the course Outcome materials. They will include answering questions about the materials, discussing ideas in small groups, playing games relevant to the learning goals, analyzing game play in terms of scientific concepts, and brainstorming ideas for new games and projects. If you cannot make it to class, it possible for you to learn the material from asynchronous resources, but it will be very important to keep in touch with me and Sarah with respect to your progress in the class.

The course is structured around helping you master the course learning goals described in the Outcomes section of Canvas. Each Outcome will have associated links to videos, reading, game instructions, additional materials, and homework questions. The homework questions are designed to allow you to demonstrate your understanding of the Outcome content and will be graded as:

Redo	(not relevant to the question)
Progressing	(partially correct but key item(s) missing or wrong)
Competent	(demonstrates good understanding)
Proficien	(explains how the concept relevant to an example)

Comments will be provided about what is missing or wrong and what you have done well. You will have two opportunities to revise your homework to demonstrate your understanding. These opportunities can be either written or oral, your choice.

To demonstrate deep understanding of course Outcomes, you will apply your understanding of the concepts to the development of science-based game for people to play or to mini-research portfolio. These can be group projects, and each has assignments to help guide you to strong outcome. In the past, the games have been really fun to develop and play. Project assignments will be graded as redo, progressing, or meets expectations for deep understanding for particular Outcome, and you will have multiple opportunities to demonstrate deep understanding of any given Outcome.

Grading: Your grade will be based on your demonstrated understanding of the learning goals represented in the 10 Outcomes. We will be using an alternative grading method to both help keep your workload down and facilitate deep learning process. This grading method focuses on the level of understanding an answer demonstrates rather than partial credit system for how much is correct. For this class, once you demonstrate certain level of understanding, you do not need to demonstrate it again and you know to concentrate your time on learning other concepts. Your grade will be based on the number Outcomes you demonstrate that you have given level of understanding. Levels of demonstrated understanding will be marked as competent, proficient and deep. If you demonstrate proficiency, you will also have demonstrated competency, and deep understanding also demonstrated proficiency and competency.

Each grade requires obtaining the following number of competent, proficient, and deep understanding outcomes through the homework questions and the final projects.

	Level of Understanding		
Grade:	Competent	Proficient	Applied
D	8	2	1
C	9	5	2
B	All 10	8	3
A	All 10	All 10	5

3. At least 3 demonstrations of clear communication in your assignments. This consists of assignments with effective flow in the logic of what you are saying as well as sufficient detail to allow anyone in the Earth and Planetary Sciences Department to understand the science you are discussing, including undergraduates who have not taken this class.