

1. Definition of your problem/question:

Area of science: \_\_\_\_\_

2. What is important about your problem? What is the purpose of your project? What problem are you investigating or trying to understand or solve?

3. What is the programming language for your model? Use the following questions to help plan your model.

4. Behaviors and conditions of agents (for each breed):

Traits:

Procedures:

Response to other  
agents

Response to  
environment

5. Environment: Do you need to change the background environment (Spaceland, in StarLogo)? If so, will you need to use a terrain builder in your program? Will your agents alter the environment as the program is running?

6. Variables & Constants: What aspects of your model will remain the same? What variables will you use to run your experiments? How will you change the variable in the program (what sliders do you need)? What are sources of randomness in your program that might lead to different outcomes when you run your program?"

7. **Measurements:** What data will you collect and how? (What experiments will you run, how many trials at each variable setting, what are those variable settings, what graphs or monitors do you need to collect this data). How will this data help answer your question? How might you show that information on your poster?

8. What questions you will try to answer through research, to make your model reflect your question? What information do you need to gather about the real world aspects of your question, to incorporate into your model and to test its validity?

9. What questions can you ask the scientist today to help you with your challenge project?

10. Which member of your team will be primarily responsible to be the:

Model programmer: \_\_\_\_\_

Researcher: \_\_\_\_\_

Report writer: \_\_\_\_\_

Other (keeping track of deadlines? Planning the presentation?):  
\_\_\_\_\_