



Biome in a Bottle Project Information Letter

Dear Parents/Guardians,

One of the big projects in CP Biology is making a Biome in a Bottle. The goal of this project is to show how organisms work together to provide the necessary materials for life through making an enclosed system to survive. For three weeks, a plant and an animal must survive together in a closed bottle without any air, food, or water being added during that time. Everything the organisms need to survive must be provided at the time of building. This will be a major project grade for the fall semester.

The purpose of this letter is to inform you of what students need to complete this project. Students will be working in groups of 3-4 in to create the biome bottles. Each student will be responsible for contributing one or more of the following:

- At least 2 2-Liter Bottles
- Plant: Green and with roots
- Animal: No bigger than a typical insect. No fish or tarantulas will be allowed.
- Dirt (proper soil or substrate for plant/animal type)
- Building Materials (packing tape, cotton string, etc.)

Most of these supplies can be easily found at home and if anything needs to be purchased, no more than \$5 should be spent on any material. If something is going to be purchased, it should be checked with the teacher beforehand. Plants and animals can be found in the environment outside and students are encouraged to be retrieved from there.

The biomes will be assembled in class and monitored over 3 weeks in the classroom. Students will be working with their groups to complete a lab and submit for a grade. Included in this lab grade is the building of a biome and the success of it. Students will not fail the project if their biome is not successful.

The planning of the biomes will occur during the week of the 19th- 23rd of October with building occurring the week of the 26th - 28th. Students will be given time in class to research, plan, and assign who is bringing what.

Sincerely, The RMHS Biology Teachers

If you have any questions, please contact your student's biology teacher.

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