

Symmetry in Nature

Week 6, Independent Project on Your Favorite Object

Bring your Favorite Symmetry Object to small group seminar discussions on Tuesday of Week 6. If you cannot bring the object, bring a photograph. Share the object with your small group and answer the following.

Does your object have any symmetry with respect to time? Would you characterize this symmetry as translation or reflection or something else?

Discuss with your group how/where you would like this project to lead at the end of the quarter. In other words, what information would you like to present to the class about your object **that you learned from your work in this program?**

File this pink sheet and your answers in your portfolio in a separate section labeled "favorite object".

Week 7, Independent Project on Your Favorite Object

You came up with some questions regarding your Favorite Object during Week 4 responses. Select **two of these questions** and do some **library research** to find answers to your questions.

List at least 3 resources you used to find your answers. At least two of these resources must be printed resources (not web sites).

Write a bibliography of your resources (following the MLA style which can be found at <http://www.liu.edu/cwis/CWP/library/workshop/citmla.htm>).

Write answers to the questions you resolved using these resources.

Determine the point group of your object.

Looking Forward To Weeks Ahead

You will be presenting your work on Your Favorite Object during week 10, Tuesday and Thursday. **All students must attend these presentations from 9-3 on both days. Attendance will be taken on both days.**

You will be asked to give a 15-minute presentation on Your Favorite Object. This time limit includes question/answer time. We will hold you strictly to your 15 minutes so that we can finish the presentations on time. You are required to use 3-5 transparencies to present information during your presentation. We will provide the transparencies/pens for you.

Rachel's seminar group will present their work on Tuesday and Dharshi's group will present on Thursday. Dharshi's group will bring snacks to these presentations on Tuesday and Rachel's group will bring snacks on Thursday (we have to be there from 9-3 so please bring something substantial to share).

Students doing 4 extra credits:

If you are presenting at the Science Carnival, we will have a rehearsal of your presentations on Wednesday of Week 8. Please come well prepared. Be sure to bring your visual aide (poster preferred). Your Science Carnival presentation will be on Friday of Week 8 (time and place TBA). You will however, continue your work till the end of the quarter and give your completed work to the faculty during week 10. You are required to attend the presentations by your colleagues (see below) on Wednesday of week 10 from 9-12 (place TBA).

If you are not presenting at the Science Carnival, then your final presentations will be on Wednesday of week 10 from 9-12 (place TBA). We expect a 20-minute presentation using visual aides (such as a poster, transparencies, Power Point, etc.). All students must be present for all the presentations (not just yours). Everyone, including the presenters, please bring snacks to share.