

**University of Utah – Department of Chemistry**  
**Chemistry Outreach Communication Form**  
**2011-2012**

School Name \_\_\_\_\_

School Address: \_\_\_\_\_

Teacher's Name: \_\_\_\_\_

Contact Number: \_\_\_\_\_ Email: \_\_\_\_\_

Grade level: \_\_\_\_\_ Number of Students: \_\_\_\_\_

Type of room: typical classroom                      large room (gym or cafeteria)                      lab  
Other (please specify): \_\_\_\_\_

Length of activity/presentation: \_\_\_\_\_

Is it possible to make the room at least partially dark? Yes No

Is there a sink in the room where the demonstrations will be performed? Yes No If no, how close is the nearest sink? \_\_\_\_\_

Scientific concepts relevant to students at this time. We will try to incorporate these concepts as much as possible.

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The following are hands on activities that can be done with the students in small groups. Please indicate with a check mark activities that you are interested in.

- Slime (glue + borax + food coloring = slime) - polymer chemistry. Student favorite.
- Volcanoes (build a play doh volcano, baking soda and vinegar to "erupt" volcano)
- Red cabbage indicator – extract pH indicator from red cabbage. Test relative acidity/basicity of common household items. Acidic items – pink, Basic – blue. Neutral – purple. Household items = lemons, limes, soap, clear soda, etc.
- Shrinky dinks – students decorate small plastic lids with Sharpie markers. Place lid in the toaster oven and the lid shrinks. Polymer chemistry.
- Lava lamps – build lamp from oil, vinegar, baking soda. Solids, liquids, gases, density, acid/base chemistry.
- Liquid nitrogen ice cream – make ice cream using cream, sugar, vanilla and freeze within minutes with liquid nitrogen.

We also have a number of demonstrations that can be performed in front of small groups or very large groups. If there are certain demonstrations that you would like us to include please indicate in the space given below. If you would like detailed information regarding the possible demonstrations please let us know.

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The University students can be available most days. If you desire hands on activity for a large group of students (up to about 100 students) Fridays are ideal. Please indicate 2-3 times that will work for you.

Date/time: \_\_\_\_\_

Date/time: \_\_\_\_\_

Date/time: \_\_\_\_\_

Please submit the completed form to Holly Sebahar at [holly.sebahar@utah.edu](mailto:holly.sebahar@utah.edu)

We look forward to enjoying science with you!!