



Summary Report for Science Squad Sunday Playday – Apr 1, 2012

[Cascades Science Center Foundation](#) is a non-profit organization with a mission to inspire enthusiasm for science, technology, engineering and mathematics through hands-on science education. Thank you for getting involved with the foundation by making your child part of the [Science Squad](#). If there is any feedback your child would like to give to us, please send it to me so we can incorporate that in our future sessions. We wish you and your family a happy spring break. Next session is on **Sunday, Apr 15, 2012!**

NOTE: Due to a conflict in scheduling with StudentRND on Apr 15, the next session will be held at [Microsoft Store in Bellevue Square Mall](#). We recommend that your event attendees park in the West Parking Garage and enter/exit the mall there – that’s the garage west of Nordstrom across from QFC on NE 8th Street (more parking info [here](#)). If you park in the West Garage, you should enter the mall on the ground level. Red Mango will be immediately on your right, and you’ll see the Microsoft Store directly ahead. Click [here](#) to see a Bing Map of Bellevue Square.

Hands-on Experience



Physical Science – Kitchen Chemistry Lead: John Hormaechea

Today’s experiment was to learn about chemical reactions. We took few items from the kitchen (Baking Powder, Baking Soda, Cream of Tartar) and show the different items reacted with water and each other. Kids also built a ‘volcano’ using vinegar and baking soda. We were able to show that the combination of vinegar and baking soda generates carbon dioxide, water and a big ‘volcanic’ mess. Many kids’ noses were sensitive to the vinegar we used. At home, kids can use white vinegar to have less smelly experiment. Sample hypothesis of this activity would be: “If baking soda is mixed with vinegar, it will cause a fizzing interaction, because of escaping carbon dioxide”.

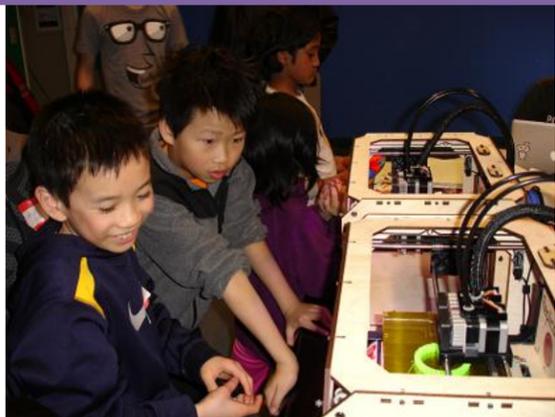
Chemistry activities provided courtesy of Oregon Museum of Science and Industry (OMSI) Chemistry Cookbook



Kodu – Edit terrain Lead: Julian Boss

Kids worked in groups of twos and threes to work on creating their custom games using XBOX controllers. They also learnt to add programming logic using “When ..., Do ...” statements. Julian captivated the kids by keeping them engaged in the learning process. The kids were screaming to use the computer even in their break time to build their Kodu games. The kids will build upon their games each week and we will have a demo day in the last session. We encourage kids to practice Kodu at home. You can help your child [download Kodu](#) and install it in your home computer. You can also join [Kodu Game Lab Community](#) so your child can share his/her cool game with rest of the world!

Learn

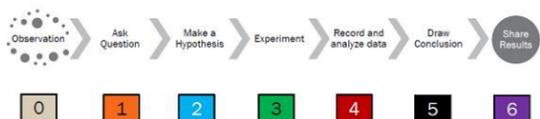


3D Printer Presenter: [MakerBot](#)

The representatives from MakerBot Industries were at StudentRND center with their cool 3D Printer [MakerBot Replicator™](#). The 3D printer actually makes real things out of plastics instead of just printing 2D images on a piece of paper. When they asked the kids about what they would make with the 3D printer, the most popular answer was “a computer”, followed by monopoly figures, dice, car and Lego blocks. The users of the 3D printer can “print” things that they would have to typically make using other methods. A model of the object is created on computer and then this is sent to the printer. Check out [THINGIVERSE](#) a community site where users can share different models for printing using the 3D printer.

Apply

SCIENTIFIC METHOD REVIEW



0. Observation
1. Question
2. Hypothesis
3. Experiment
4. Record & Analyze Data
5. Conclusion
6. Share Results

Imaginative Playground Lead: Sonu Arora

We brainstormed on the hands-on science project ideas that students will work on using [Scientific Method](#). Please work with your child on coming up with a hypothesis for their chosen science project. The teams are listed below:

#	Team Name	Science Question
1	Bob Daniel Lu, Daniel Hong, James Lai	Why does a door bell ring?
2	The Eaters of Pi Patrick, Lucas, Daniel Pogrebinsky, Ton	How does electric current flow through an electric circuit?
3	The Idiots Subarno, Dev, Joseph Li, Daniel Li	Why does the Lego robot change direction when it hits an obstacle?
4	Science People Eric, Nicholas, Angelina	How do rollercoasters work?

Students will begin working on their science projects in the next session. They will also take videos of their project that we will show at the end of the program.