Summary Report for Science Squad Sunday Playday – Apr 15, 2012

Mar 25	Apr 1	Apr 15	Apr 29	May 13	May 27	Jun 10	Jun 24

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. This workshop took place Microsoft Store in Bellevue. Thanks to Microsoft Store for letting us host this event. Next session is on **Sunday, Apr 29, 2012**! You can find the photos from the event at the Facebook page. While you are there, don't forget to like Cascades Science Center Foundation to support our cause.

Hands-on Experience

Physical Science – Color & Reactions — Lead: John Hormaechea, Erol Balevi

There were two activities that kids participated in their physical science hour: "Reaction, Yes or No" and "Concentrate". In the Reaction, yes or no, kids learnt how the pf http://www.cascadesscience.org/wp-content/uploads/2012/04/Summary-Report-for-Science-Squad-Sunday-Playday-Apr-15.pdf lastic bag will fill up like a balloon, without having to blow air into it. They mixed calcium chloride and baking soda in the Ziploc bag to create a carbon dioxide gas that blows up the plastic bag. They fsalso observed bags getting hot through the course of the experiment. In the Concentrate activity the kids learnt about how color changes can be used to indicator whether a substance is acid, base or neutral.

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

Kodu – Math behind the game — Lead: Julian Boss

Thanks to Microsoft Store, majority of the kfsids had their own computer and Xbox controller for programming their games in Kodu. Majority of kids can now add characters/objects, program their characters/objects and play the game. Now is the time, when kids need to get creative and think about their game objectives so further programming rules can be added to the games. For example, in this session kids learnt how to add green and red apples to the game. If Kodu grabs the red apples, the score is incremented and if Kodu runs into green apples, the score decrements. Another important concept they learnt about "Creatables" and how they are different from cloning the characters. As a review, please walk through the Student Sheet Activity 6: Creatables with your kids at home. Also, this participant manual is useful for kids to go through various Kodu activities.

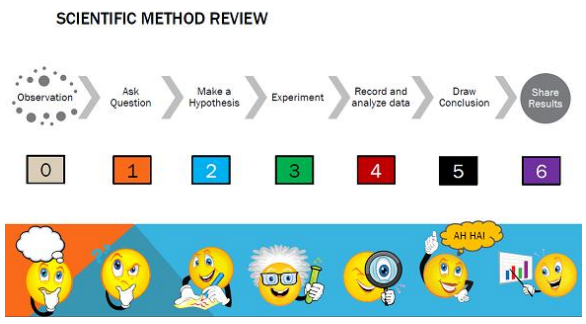
Learn

http://www.youtube.com/watch?v=MluyqfKENho

Windows Live Movie Maker — Presenter: Sonu Arora

The students learnt to use Windows Live Movie Maker program from Microsoft to edit the videos after they have shot them. The kids used the embedded camera on their laptops to record the videos, upload them to the Movie Maker and added title and captions to it. At home they can practice how to split the videos and remove the clips they don't intend to include in the video. Teams will create a video report (4 min max) of their team science project and then edit it using Movie Maker to show at the end of the program. Encourage the kids to practice creating short fun family videos and editing them to make them interesting. You can download Windows Live Movie Maker and go through this tutorial to edit the movies. Don't forget to watch the video of the event edited using this software.

Apply



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

Imaginative Playground — Lead: Sonu Arora, Erol Balevi

We showed the materials teams will use for the hands-on science project ideas that students will work on using Scientific Method. In our next session we will work on coming up with the hypothesis for each project. Practice sample hypothesis at home before the session. Here is the team breakdown:

#	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, Jacob	Why does the Lego robot change direction when it hits an obstacle?
4	**Science People** Eric, Nicholas, Angelina	How do rollercoasters work?