

# CS Education Week and Grace Hopper - December 8th, 2014

## CS Education Week

This week's Looney Challenge is to participate in CS Education Week, December 8-14<sup>th</sup>, 2014. To earn points you can choose one of the two options below:

### 1. Who is Grace Hopper? (5 points)

Grace Hopper was an Admiral in the United States Navy and was also a computing pioneer. Learn more about Grace Hopper and her importance to computer science. Please answer the following questions:

- What did she invent in 1952? Describe how it works.
- She also invented a programming language. What is the language and how is it used? Is it still used today?
- When is Grace Hopper's birthday? (Hint: CS Education Week is held in conjunction with her birthday).
- What term did she coin in 1945 (Hint: It involved a moth)?
- What is the most important thing you learned about Grace Hopper?

\* Links on Grace Hopper:

The History of Computing Project - [http://www.thocp.net/biographies/hopper\\_grace.html](http://www.thocp.net/biographies/hopper_grace.html)

Amazing Women in History - <http://www.amazingwomeninhistory.com/amazing-grace-hopper-computer-programmer/>.

Rear Admiral Grace Hopper Remembered (video) -

[https://www.youtube.com/watch?v=zWNADC\\_ZYIM](https://www.youtube.com/watch?v=zWNADC_ZYIM)

Bio.com - <http://www.biography.com/people/grace-hopper-21406809#synopsis>

Follow the instructions at the bottom of the page to earn Looney Challenge points for completing and answering the questions about Grace Hopper.

### 2. Hour of Code (10 points)

- Go to <http://csedweek.org>. Watch the video to learn about **Hour of Code**.
- Click on the "Start" button next to the video to participate in **Hour of Code** or go to <http://csedweek.org/learn>.
- Select one of the **Hour of Code** activities. For example, if you have never coded, go to the **Tutorials for Beginners** and choose to "Write your first computer program" or "Create your own Game" using Tynker. If you have some experience coding, you may choose another category, such as a **Tutorial that Teaches Java Script** or **Make your Own App or Game**. Don't have a computer? Go to **Try Unplugged Computer Science**.
- After you have selected a tutorial, complete the **Hour of Code** challenge and HAVE FUN!
- Email your results (either a snapshot, copy of completion certificate, etc.) to show that you have completed the **Hour of Code**. Email to [looneychallenges@gmail.com](mailto:looneychallenges@gmail.com). **Remember to let us know your name, email, grade, and your school.**

### **How to earn points:**

1) If you haven't registered your class, please go to [cs.montana.edu/looney-challenge](http://cs.montana.edu/looney-challenge) and click on the "Register for Looney Challenges" link.

2) Discuss with your class the difficulty of the activity. What did they learn? How difficult was the activity? Do they understand the concept?

3) Briefly, in a couple of sentences, describe in your email what happened during the activity? Did your students understand the concept(s)? Email your description to [looneychallenges@gmail.com](mailto:looneychallenges@gmail.com).

4) If you want to attach an example, photographs of students working, or video of student's outcomes, please send them as an attachment.

5) We will send you a confirmation and provide you your point total for the activity and your total points for Looney Challenges.

For questions, please contact Sharlyn Izurieta, 994-4794 or send an email to [looneychallenges@gmail.com](mailto:looneychallenges@gmail.com)

**Deadline is June 30, 2015.**