Coding for Good 1: Coding Basics

Complete the three steps to earn your Coding for Good 1 Badge.

1. **Create algorithms for a computer that follow a sequence:** In order for a computer to complete a task, it requires step-by-step instructions. This order of steps is called an algorithm. If the steps are confusing or out of order, the computer won't be able to do its job.

   Look at the two bedtime routines below. Which one is in the correct order and which one is not?

   Bedtime Routine 1:

   - Brush your teeth
   - Put your PJs on
   - Read a story
   - Go to bed

   Bedtime Routine 2:

   - Go to bed
   - Read a story
   - Brush your teeth
   - Put your PJs on

2. **Learn about women in computer science:** Explore the life of Mary Jackson the first female African -American engineer to work for NASA!

3. **Explore sorting algorithms:** Computers follow algorithms which are a step-by-step process that help to complete a job. If the steps are out of order the computer is not going to know how to do its job.

   Let's practice putting things in the right order by playing a word scramble game.

Word Scramble: Remember you can always ask a grown up for help if you get stuck!

Hint: These are all Girl Scout words!

Word 1: oocike

Word 2: lgri csuot

Word 3: ntih mnit

Word 4: adsiy

Word 5: tpela

Word Bank: Cookie, Girl Scout, Thin Mint, Daisy, Petal