Daisy – App Development

Material list:

Step 1:

- Playdough or clay
- **Making Emoji Faces** pdf

*Note: You will need a second person (a parent, sibling, etc.) to help you with this activity.

Step 2:

- **You Can Be an App Developer** pdf
- Paper
- Something to write with – a pen, pencil, crayons or markers

Step 3:

- Your app from step 2
- Paper
- Something to write with – a pen, pencil, crayons or markers

* Note: You will need a second person (a parent, sibling, etc.) to help you with this activity.

Today, computers are everywhere and can help us do all kinds of things. Many people rely on the programs found on smartphones and tablets to help them solve problems. These programs are called applications or apps for short. In this badge, we are going to look at how computer scientists use the design process to create new apps.

Step 1: Decompose your problem into smaller steps

Think about some of the apps you or your family use. Many are designed to solve a problem. An app like Maps is designed to help people get to where they need to go, by giving them driving directions. Or social media apps (Facebook, Instagram, etc.) are designed to help keep people connected. Can you think of any other examples of apps and the problems they are designed to solve?

When app developers, computer scientists who create applications, start working on a new app, they have to use decomposition to build their app. For this activity, use the Making Emoji Faces learn more about what decomposition means.

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Step 2: Design an app that solves the problem

Now that you've learned how to decompose a problem, let's use this idea to start building an app to help us create a lot of different emoji faces. Use You Can Be an App Developer to help you start to create your plan and storyboard.

Step 3: Share and improve your app

Once an app designer has created a version of their app they often ask the people who are going to use the app for suggestions to make it better or easier to use (user-friendly). Share your app with someone in your family or a friend. Do they have suggestions for you?

Now that you've earned this badge, you could give service by teaching others how to break down big problems. What kind of problems are you inspired to solve?