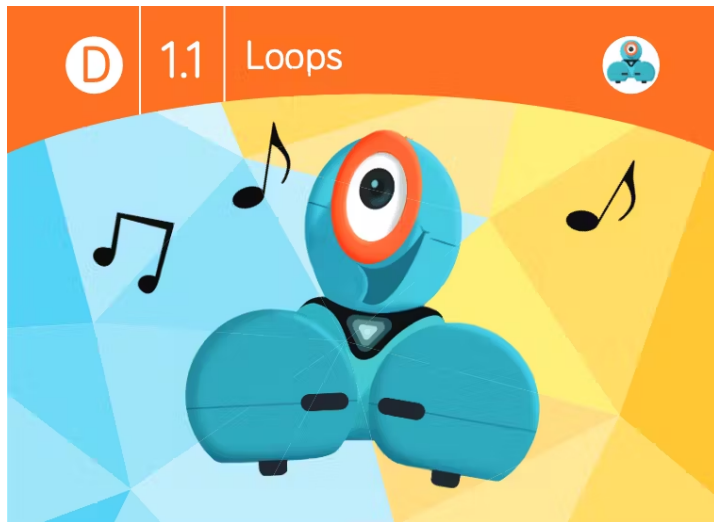# D 1.1 Cheer Up, Friends!

Assign

DESCRIPTION	In this challenge card, students will be familiarized with the more advanced concepts of loops in programming. Students will be required to use the "Repeat" and "Drive" blocks to help Dash perform a series of sounds and actions through a "nested loop" structure.
OBJECTIVES	Students will be able to understand the more advanced concept of loops in programming. They will use "Repeat" and "Drive" coding blocks to help Dash perform a series of sounds and actions through a "nested loop" structure.
CODING SKILL	Loops
MATH DOMAIN	Loops
MATERIALS	Teacher • Device • Class Connect Student • Device • Dash • Three cups • Tape • Ruler
LESSON	Today, we will be helping Dash cheer up its friends.
STUDENT ACTIVITY	Students will be using the "Repeat" and "Drive" coding blocks to help Dash cheer up its friends. Students will demonstrate the ability to understand the use of a more complex concept - "nested loops" - in programming.
POST ACTIVITY	Great job at using loops to help Dash cheer up its friends! Now let's think about the following questions: 1. Why did you need to use 2 Repeat blocks in order to make your program work? 2. Explain what would happen if the second Repeat block were below and not inside the first Repeat block. 3. Describe how the blocks might need to change if the shape were a rectangle.

Activity Preview

View In Blockly

D 1.1
Cheer Up, Friends!

Dash's friends are feeling down today. Dash wants to share a happy message and dance to help make them feel better!

Steps

1 Welcome to Challenge D 1.1.

Let's take a look at the instructions and see how to help Dash cheer up its friends!

Suggested Solution

Assessment