LESSON PLANS

Title	
Lesson plan to be implemented in English/Math/Robotics class	
Aim	The main goal of this lesson plan is to familiarize the students with the term “Loop”
Students age targeted	8 years old
Estimated time	40 min
Topics covered	• Events, loops • creating a basic loop
Facility/ Equipment	• Classroom • Dash & Dot challenge cards • Dash robots • Tablets
Tools/ Materials	• Challenge cards • Color pencils • A4 blank sheets
Development of activities	**Activity 1:** Revision, how do we “make” the robots move around and “Do our biddings” 2-4 min **Activity 2:** Revise how to change the color of the robot`s lights, how to use robot`s “Say” emotes. 2-4 min **Activity 3:** “The forever Light Show” 10 - minutes **Activity 4:** “Dance, Dash, Dance” 10 - minutes **Activity 5:** Discuss questions about loops and events (10 mins) **Further homework** (if applicable) none

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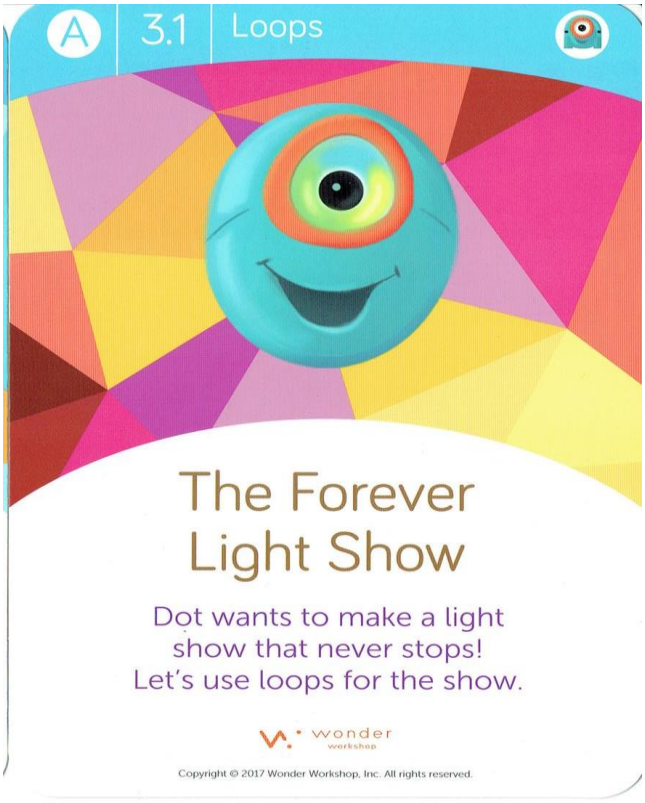

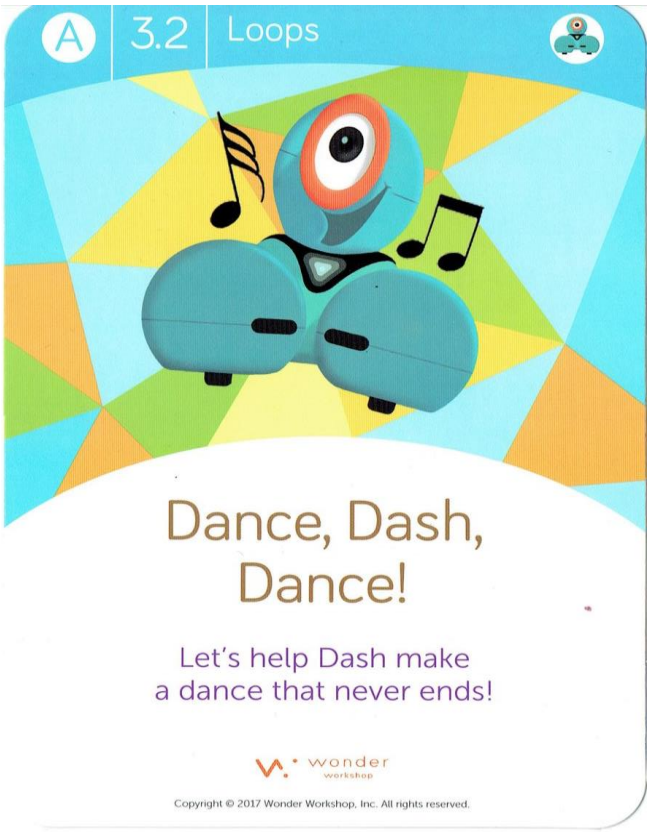

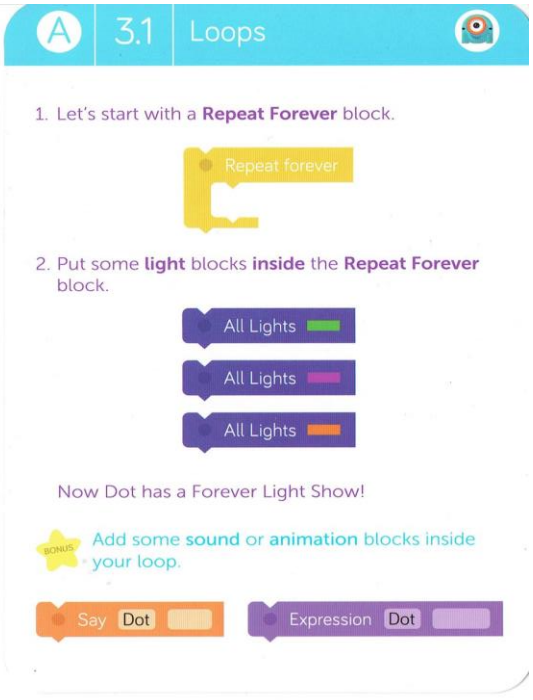

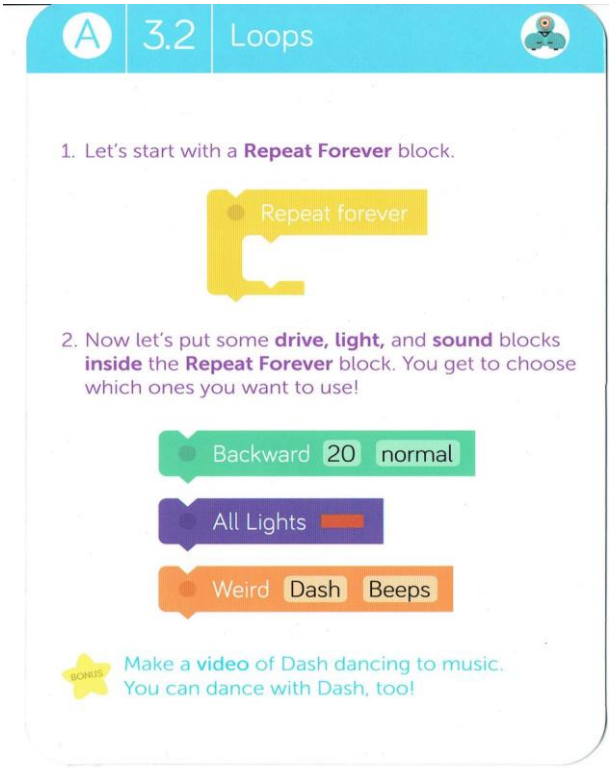

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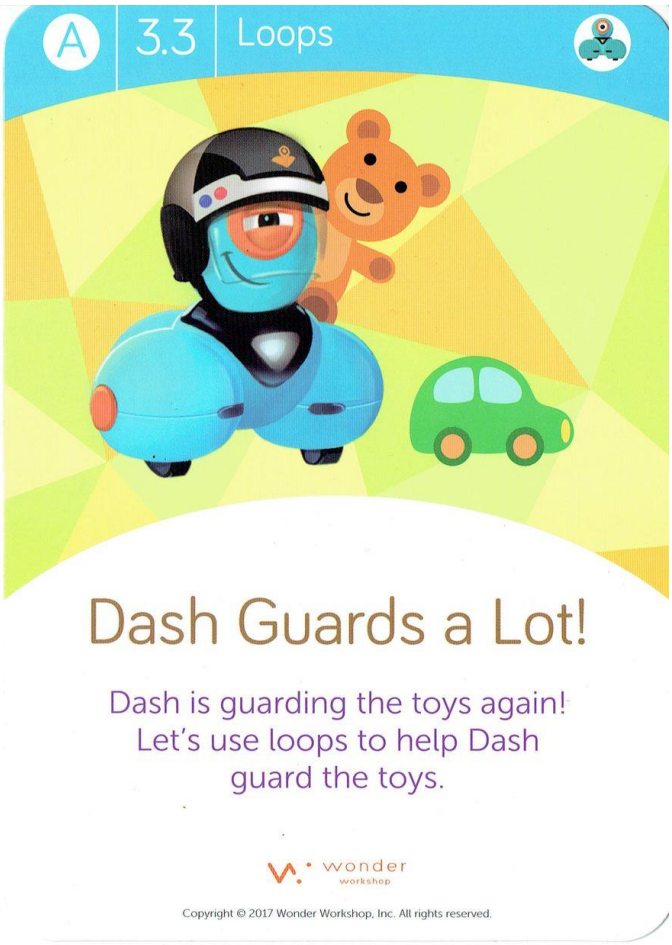

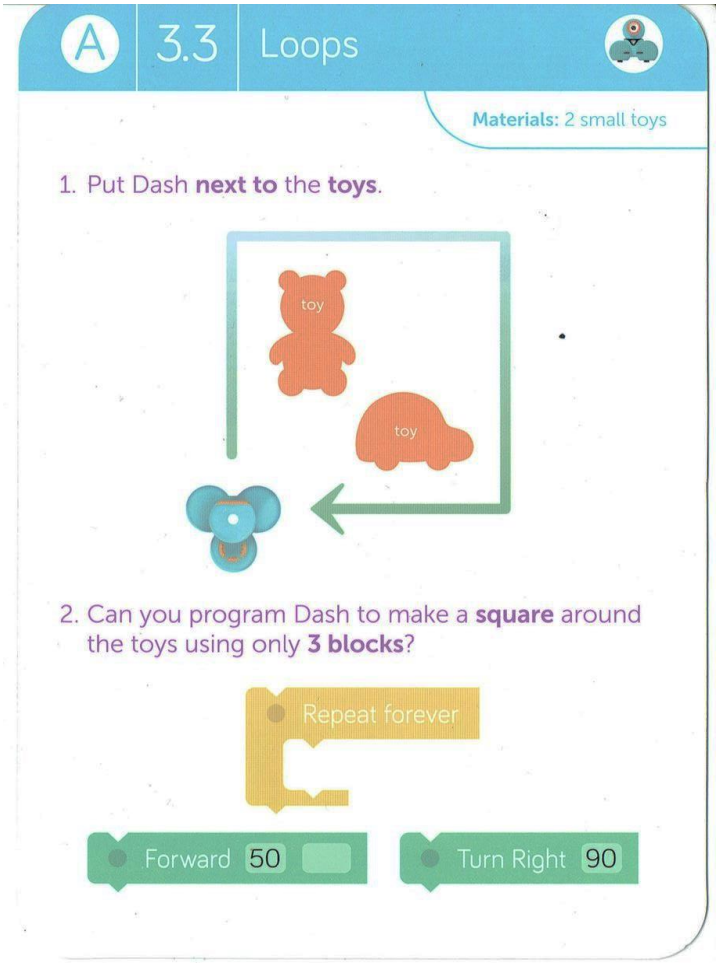

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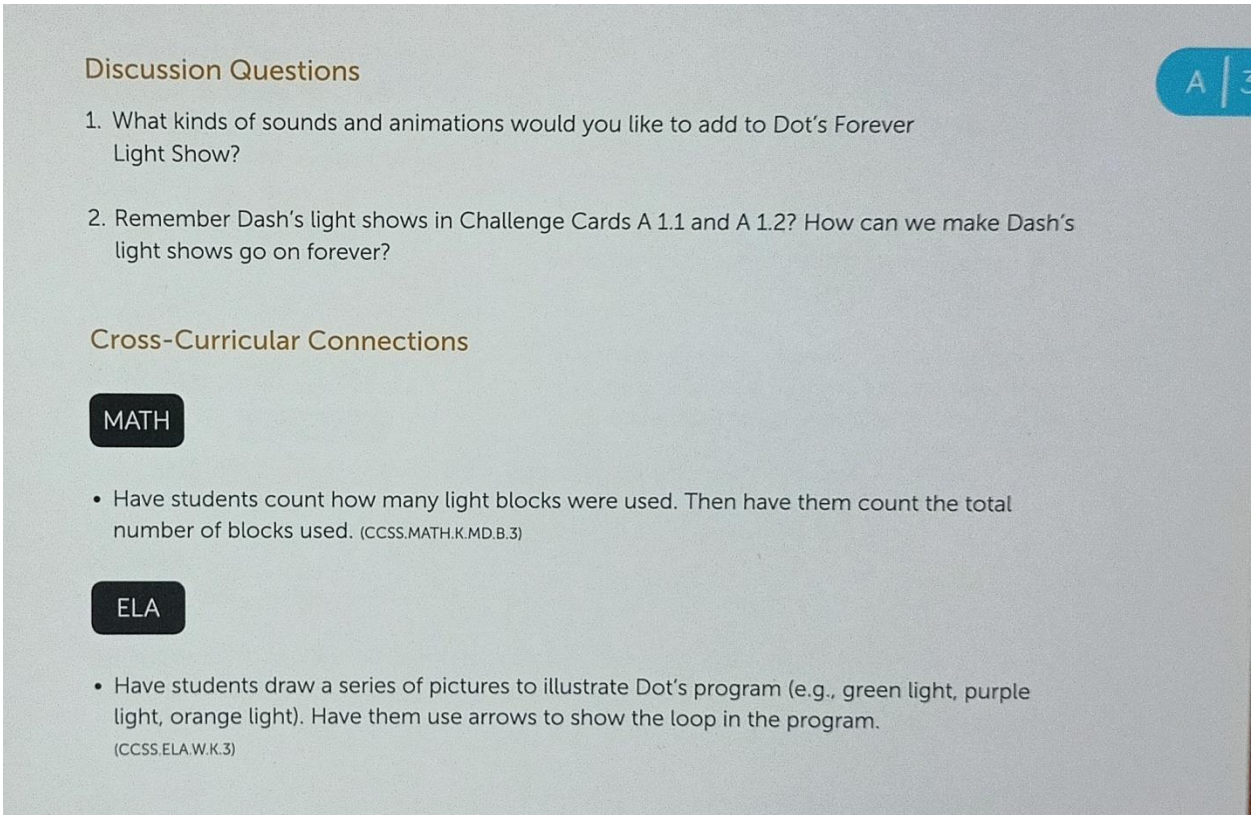
HANDOUT 1: Light Show



Discussion Questions

A | 3

1. What kinds of sounds and animations would you like to add to Dot's Forever Light Show?

2. Remember Dash's light shows in Challenge Cards A 1.1 and A 1.2? How can we make Dash's light shows go on forever?

Cross-Curricular Connections

MATH

- Have students count how many light blocks were used. Then have them count the total number of blocks used. (CCSS.MATH.K.MD.B.3)

ELA

- Have students draw a series of pictures to illustrate Dot's program (e.g., green light, purple light, orange light). Have them use arrows to show the loop in the program. (CCSS.ELA.W.K.3)

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HANDOUT 2: Dash's dance

Discussion Questions

1. What kind of music do you want to use for Dash's dance? How can we program Dash's dance to go with the music?

2. Why do you think we used a loop to create Dash's dance?

Cross-Curricular Connections

MATH

- Have students count how many **drive**, **light**, and **sound** blocks were used. Then have them count the total number of blocks used. (CCSS.MATH.K.MD.B.3)

ELA

- Have students create a song for Dash's dance. Then have them record the song and play it while Dash dances. (CCSS.ELA.W.K.6)

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