

Grade 3 Late Assessment - Teacher Resource

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The following versions of this document are available:

- [Google Doc: Grade 3 Late Assessment - Teacher Resource](#) (most accessible version)
- [PDF: Grade 3 Late Assessment - Teacher Resource](#) (most portable version)

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Front Matter

This assessment includes 6 items from two CT topics (3 Sequencing items; 3 Repetition). Four items (#2, #3, #5, and #6) use images of the Scratch interface and/or Scratch blocks.

Each item has an exemplar response(s) and a scoring guide and/or rubric included (and when applicable, other information to help with interpreting student responses). The scoring guidance and rubrics were developed by our project to assist in coding and interpreting student responses, and are explicitly focused on using student responses to make inferences about the relevant knowledge, skills, and abilities that we identified from the learning trajectories and built into our item design process. As such, other end users of these assessment instruments may choose to adapt the scoring guidance and/or rubrics to match their purposes and students.

One of the items (#5) has an associated rubric which is included in the items' details.

Items

#01

Meta-data

- Item code: S.05.a
- Trajectory: Sequencing

Item

In Problem 1, circle True or False.

1) When building a script in Scratch you can put blocks in any order without changing what the script does.

- **True**
- **False**

Exemplar response(s)

False

Scoring Guidance

- True=0
- False= 1

Rubric(s)

None

#02

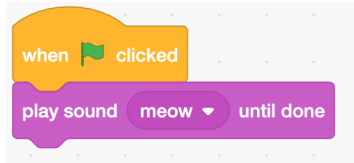
Meta-data

- Item code: R.03.a
- Trajectory: Repetition

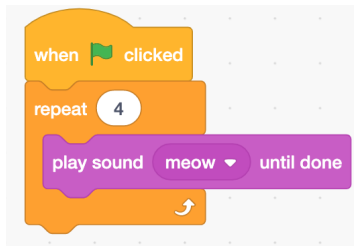
Item

2) Circle the script that will play the “meow” sound twice and then stop.

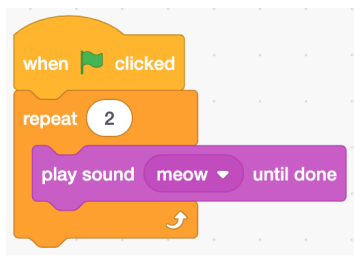
A.



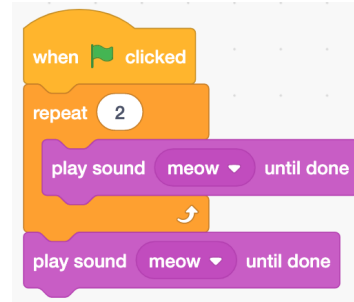
B.



C.



D.



Exemplar response(s)

C

Scoring Guidance

- "C" = 1;
- any other choice = 0

Rubric(s)

None

#03

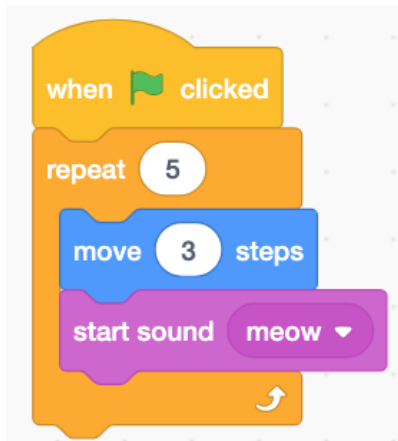
Meta-data

- Item code: R.07.c
- Trajectory: Repetition

Item

3)

This script is for the cat sprite.



a. When you click the green flag, how many steps will the cat take?

- A. 3 steps
- B. 5 steps
- C. 8 steps
- D. 15 steps

b. When you click the green flag, how many times will the sound “meow” play?

- A. 3 times
- B. 5 times
- C. 8 times
- D. 15 times

Exemplar response(s)

- a) 15 steps
- b) 5 times

Scoring Guidance

- Scored in two parts (Part a: "D" = 1; Part b: "B" = 1).

Rubric(s)

None

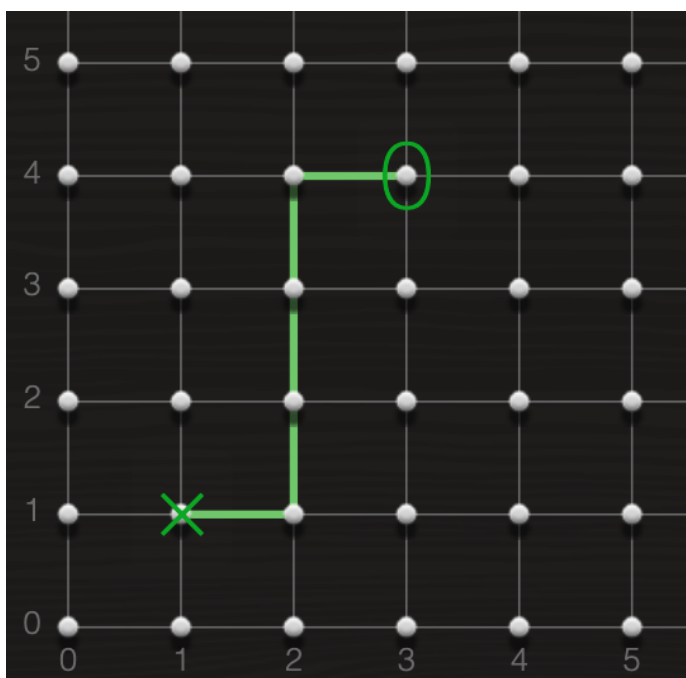
#04

Meta-data

- Item code: S.12.a
- Trajectory: Sequencing

Item

4) Pretend you are standing at the **X**. Write instructions for moving along the path from the **X** to the **O**.



Your instructions:

Exemplar response(s)

Answers might vary in how students describe their directions, but should somehow indicate the correct order and direction of movement.

Example 1:

1. Move 1 dot right
2. Move 3 dots up
3. Move 1 dot right

Example 2:

1. Turn right
2. Move forward 1
3. Turn left
4. Move forward 3
5. Turn right
6. Move forward 1

Scoring Guidance

- must provide directions (including number of steps) to move from the X to the circle = 1
- incorrect/incomplete directions (and/or steps) = 0

Rubric(s)

None

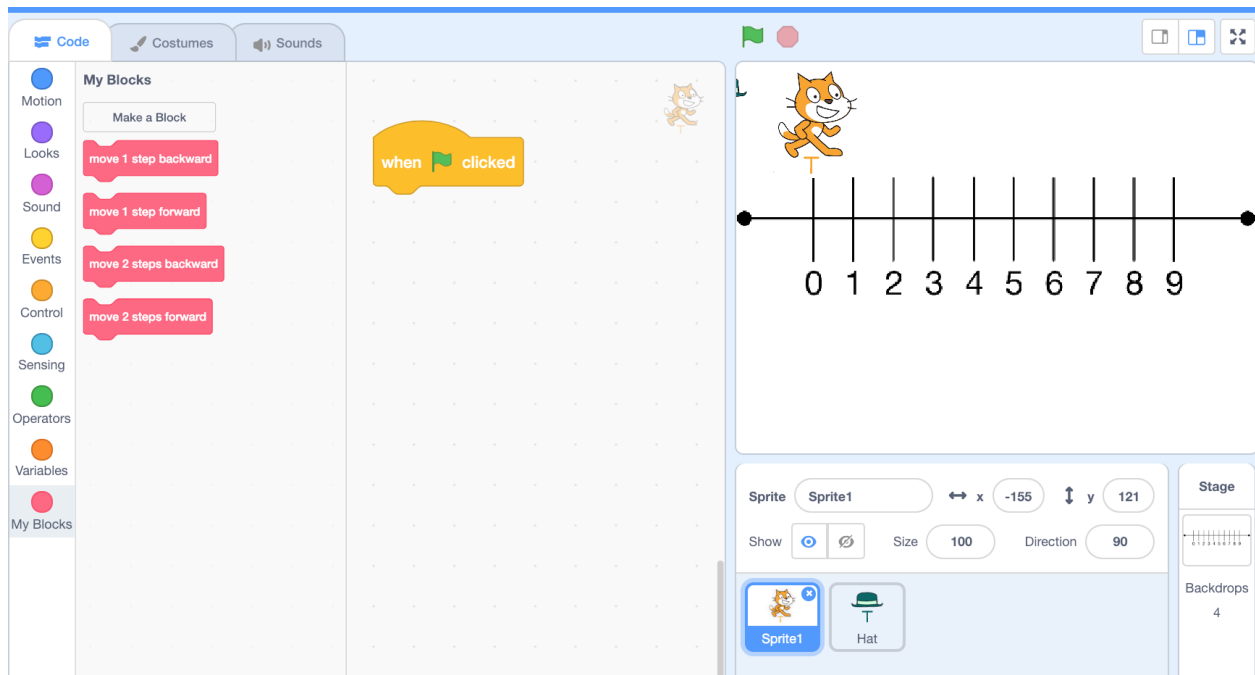
#05

Meta-data

- Item code: S.01.a
- Trajectory: Sequencing

Item

5) Create 2 different scripts (sets of instructions) to move the cat so that he stops at 5 on the number line. **Use only the blocks shown above.**



Script A

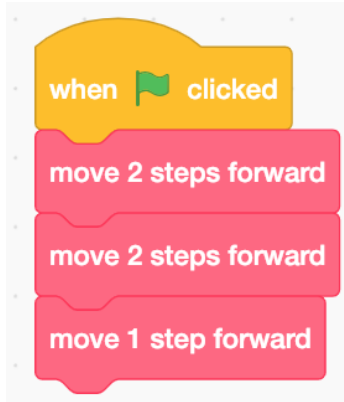


Script B

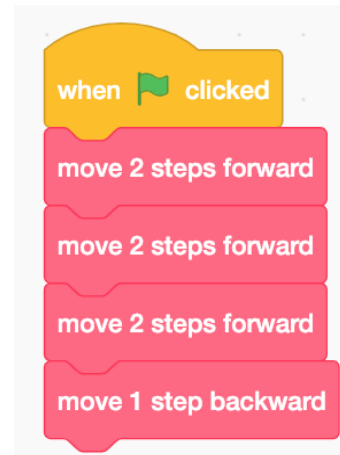


Exemplar response(s)

Script A



Script B



Note: Any combination of forward and backward steps is acceptable as long as the cat stops at 5.

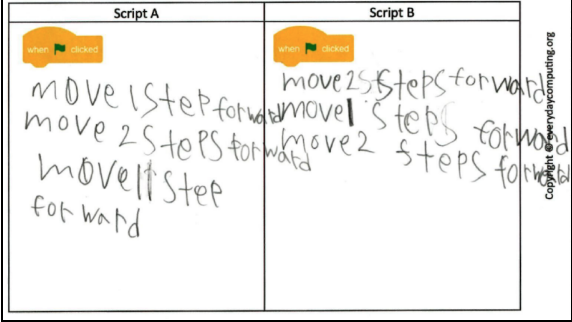
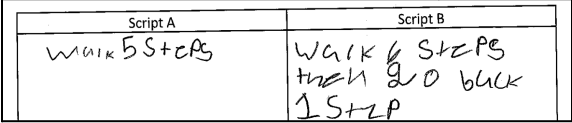
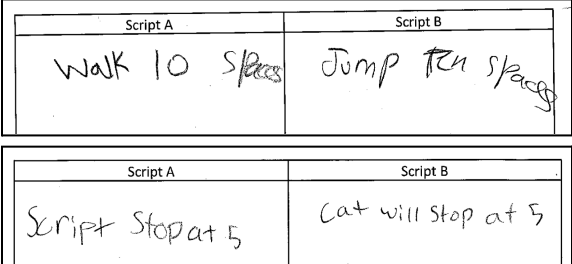
Scoring Guidance

See Rubric

Rubric(s)

This rubric focuses on two important features of this item that relate back to this item's design principles: (1) did the students use the given blocks to achieve the intended outcome and (2) did the students show two different code blocks that would both produce the same intended outcome? The rubric creates different levels of performance based upon those two features.

Score	Description	Example								
3	Provides 2 correct ways to get to 5 using the given* blocks	<table><tr><th>Script A</th><th>Script B</th></tr><tr><td>move 2 forward move 2 forward move 1 forward</td><td>move 2 forward move 2 forward move 2 forward move 1 backward</td></tr></table> <table><tr><th>Script A</th><th>Script B</th></tr><tr><td>• move 2 steps forward • move 2 steps forward • move 1 step forward</td><td> when clicked • move 1 step • move 1 step • move 1 step • move 2 steps </td></tr></table>	Script A	Script B	move 2 forward move 2 forward move 1 forward	move 2 forward move 2 forward move 2 forward move 1 backward	Script A	Script B	• move 2 steps forward • move 2 steps forward • move 1 step forward	when clicked • move 1 step • move 1 step • move 1 step • move 2 steps
Script A	Script B									
move 2 forward move 2 forward move 1 forward	move 2 forward move 2 forward move 2 forward move 1 backward									
Script A	Script B									
• move 2 steps forward • move 2 steps forward • move 1 step forward	when clicked • move 1 step • move 1 step • move 1 step • move 2 steps									

2	Provides 1 way to get to 5 with the given* blocks [Clarification: The students' 2nd way might be correct (but using not given blocks), or might be incorrect (using either given or not given blocks) or might be blank.]	
1	Provides 2 correct ways to get to 5 using blocks that are not given*	
0	Shows incorrect block usage (cat will not reach Step 5), or provides only 1 way to get to 5 with blocks that are not given*	

Note. "Given block" means that the student is constrained to using commands that move the cat either 1 or 2 steps, in either a forward or backward direction.

- ***Given blocks** define a limited number of steps and directions. Valid options are 1 step backward; 1 step forward; 2 steps backward; 2 steps forward.
- ***Non-given blocks** would be other blocks (e.g., "repeat 5 times") or blocks that do not use the defined number and direction (e.g., "move 5 steps forward").

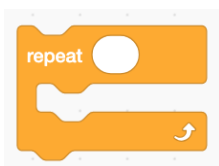
#06

Meta-data

- Item code: R.01.c
- Trajectory: Repetition

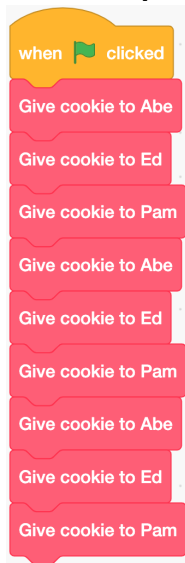
Item

6) Eve has 9 cookies to give away to her friends Abe, Ed, and Pam. She wants to give each friend an equal number of cookies. Eve wrote a script for how to give away the cookies.



Modify Eve's script. Use a **repeat** block at least once.

Eve's Script:

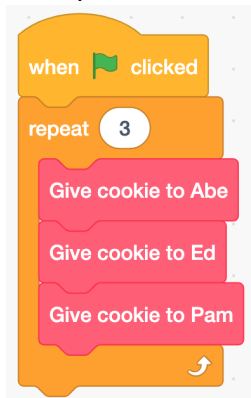


Your Script:

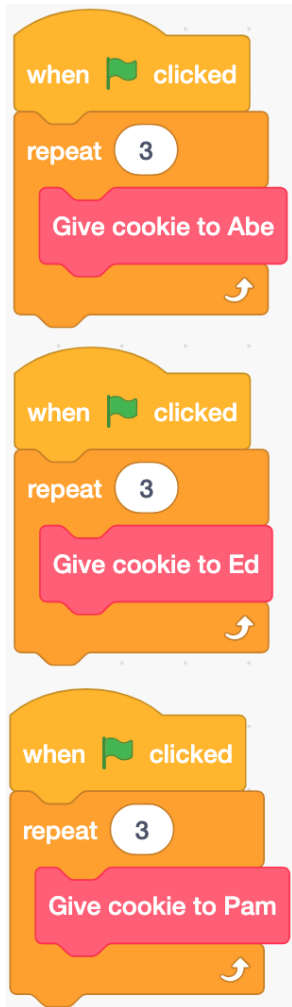


Exemplar response(s)

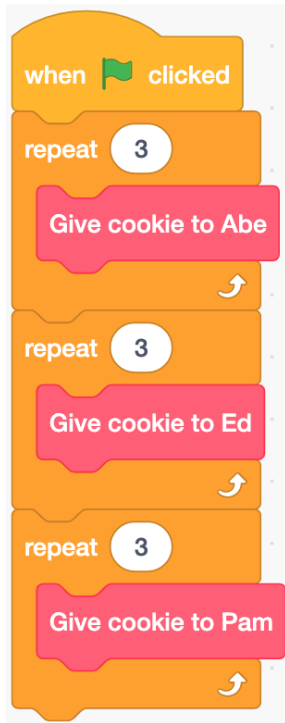
Example 1



Example 2



Example 3



Scoring Guidance

- Similar to exemplar =1
- Incorrect way = 0
- Must use "repeat 3 times" instruction

Rubric(s)

None