

Lesson 3.6: Starry Night

Objectives

In this lesson, students will:

- Create a scene with different characters on Scratch Jr. representing a farm
- Learn how to repeat code
- Make objects disappear

Preparation

☐ Create the project in advance so you can demonstrate it to the students

Agenda

- 1. Introduction
- 2. Demonstration
- 3. New concepts
- 4. Choosing a background
- 5. Adding Stars
- 6. Students expand on their project
- 7. Wrap Up & Reflections

5 mins

5 mins

10 mins

5 mins

10 mins

10 mins

5 mins

Resources & Links

■ Scratch Blocks:

https://www.scratchjr.org/learn/blocks

- ☐ Google Slides
- ☐ Demo video:

https://youtu.be/95B0zHp-bxl

☐ Scratch Jr. Interface:

https://www.scratchjr.org/learn/interface

Credits:







1. Introduction

Explain to students that today they will create a new project using Scratch Jr.



With their elbow partner or as a class discussion, ask students to tell one thing they remember learning on Scratch Jr.

Remind students on how to open Scratch Jr. on their tablet or computer and how to create a new project

Discuss with students what can be seen in the sky at night, when they are no clouds Today students will

- Create a starry night using sprites from the library(minimum 4)
- Each sprite should do different things
- Use a variety of blocks we've already tried and blocks we haven't tried yet.

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2. Demonstration

Show the students a project you have prepared for this class. Do not show them the code.

https://youtu.be/95B0zHp-bxl

3. New concept:

a. End blocks

Today, you will use a new set of blocks:

The end blocks allow you to

- Terminate a script
- Repeat a script forever
- Go to a different screen (we will use that in another project later)







END BLOCKS

End



Indicates the end of the script (but does not affect the script in any way).

Repeat Forever



Runs the script over and over.

Go to Page



Changes to the specified page of the project.

Demonstrate the Repeat forever block







b. Looks blocks

Looks Block (in Pink) allow us to change the appearance of a sprite

LOOKS BLOCKS	5		
Say		Grow	
hi	Shows a specified message in a speech bubble above the character.	2	Increases the character's size.
Shrink		Reset Size	
2	Decreases the character's size.		Returns the character to its default size.
Hide		Show	
	Fades out the character until it is invisible.		Fades in the character until it is fully visible.

We can make things appear and disappear, but for that, we would need a new kind of blocks to make it very cool

c. Control blocks





CONTROL BLOCKS

Wait



Pauses the script for a specified amount of time (in tenths of seconds).

Stop



Stops all the characters' scripts.

Set Speed



Changes the rate at which certain blocks are run.





Runs the blocks inside a specified number of times.



If you want to make a start shining, you would need to make it disappear, then wait a little bit and then reappear. You can use the Pause block for than

Demonstrate some of the blocks the students might want to try later

4. Choosing a background

Ask students to create a new project and select the correct background for a farm scene using the "background" icon







They can choose a night scene of their choice

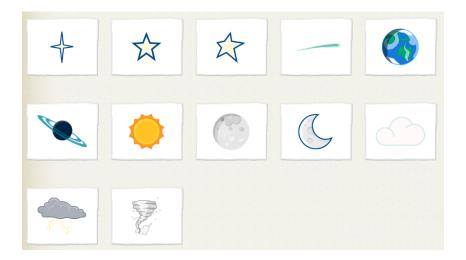


5. Adding Stars

Students can add different stars to their projects. Invite them to make a script for each star so they do something different when the project starts.

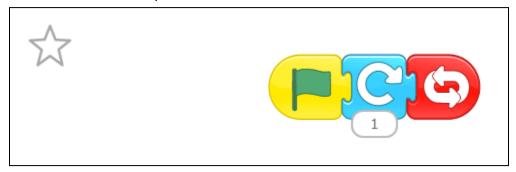




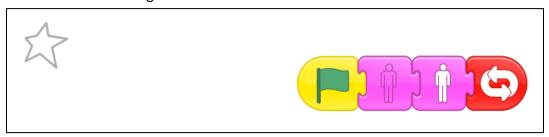


<u>Ideas:</u>

• Make the star spin forever



• Make a blinking star



Or



© Code for fun





6. Student expands on their project

Ask students to add other characters to their scene (animals for example) and use the new blocks covered today

7. Wrap-up and Reflections



Reflection Points:

- What is a new block you learned today?
- What is a triggering block?
- We can recognize animals using our eyes, our touch, and today, we made a program that uses our hearing to identify an animal

