



## WATER CYCLE BOOGIE: LESSONS OVERVIEW

**ALL COMPLETE LESSON PLANS AND STUDENT SHEETS AVAILABLE ON THE WEBSITE: [WWW.MIAMICOUNTYPARKS.COM/NODE/1254](http://WWW.MIAMICOUNTYPARKS.COM/NODE/1254)**

**\*\* Indicates that a copy of the instructions for that activity are *also* inside the student kit**

### SLUG SCIENCE JOURNEYS VIDEO (20-MINUTES)

**STANDARDS:** 2.ESS.2, 2.ESS.3

**DESCRIPTION:** Cinda Wind introduces students to The Banana Slug String Band and together they go on a journey to learn the “Water Cycle Boogie”. This will be the main resource that students will reference for the below activities.

### SONG BOOK

**STANDARDS:** 2.RF.3, 2.RF.4, 2.ESS.2, 2.ESS.3

**DESCRIPTION:** The online book provides the students a version of the Banana Slug song, “Water Cycle Boogie” in a read along format. Each student will be able to read through the book at their own pace and have the concepts re-emphasized through the illustrations first introduced in the Slug Science Journey video.

### LESSON 1: EVAPORATING PUDDLE EXPERIMENT

**STANDARDS:** 2.SL.6, 2.W.8, 2.ESS.2, 2.ESS.3, 2.MD.1, 2.MD.2, 2.MD.9, 2.MD.10

**DESCRIPTION:** In the Slug Science Journey video, Professor Dirt encourages the student to get outside and explore with hands on discovery learning. After a rainstorm, or the student can pour water in an area to make a puddle, the student will place a stick in the ground next to the puddle and mark the original water level. The student will observe the puddle over a 72 hour period to see the changes in the water level (evaporation rate) by comparing it to the original mark on the stick. The student can present their findings on FLIPGRID. Using their own paper, students can utilize their data to create a chart to show how much evaporates each day, and record the amount in both metric and standard. This information can be used to create a line plot, where the horizontal scale is marked off in whole number units and additional bar graph can be made to show how information can be presented in various forms.

### LESSON 2: CONDENSATION

**STANDARDS:** 2.SL.4, 2.SL.5, 2.SL.6, 2.ESS.2, 2.ESS.3

**DESCRIPTION:** In the Science Journey video, Professor Dirt challenges the student to go outside and watch condensation in the SKY (clouds) to see how they move and take on different shapes. The student is encouraged to record their findings using FILIPGRID to record the clouds and their observations. The student can also write their findings and draw a picture of the clouds.

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## LESSON 3: PRECIPITATION

**STANDARDS:** 2.W.3, 2.W.8, 2.SL.6, 2.MD.1, 2.ESS.2, 2.ESS.3

**DESCRIPTION:** This can be done both as an individual study or as an entire class. Using a clear container (recycled glass jar), the students will fill it with rocks, marbles or any water safe item. The rain gauge can then be observed over a period of time, with students recording their observations on the activity worksheet and taking photos of it over time to post on FLIPGRID.

## LESSON 4: VENN DIAGRAM

**STANDARDS:** 2.RF.3, 2.RF.4, 2.RI.3, 2.RI.9, 2.ESS.2, 2.ESS.3

**DESCRIPTION:** The assigned reading will be the texts required to complete this exercise. These books also support the concepts introduced in the videos and Water Cycle Boogie Song Book. The ideas presented will also assist the student in creating their Family Water Conservation Plan.

## LESSON 5: CREATE A FAMILY WATER CONSERVATION PLAN

**STANDARDS:** 2.RI.1, 2.RI.3, 2.RI.6, 2.RI.7, 2.W.2, 2.W.5, 2.W.6

**DESCRIPTION:** Students are challenged to work with their families to create a water conservation plan at home. A video with ideas as well as a guided worksheet, assists the student in getting excited about saving water. Students can complete the worksheet, then show how they have made changes at home using Flipgrid.

## LESSON 6: VOCABULARY

**STANDARDS:** 2.RI.4, 2.RI.5, 2.L.2, 2.ESS.2, 2.ESS.3

**DESCRIPTION:** The glossary assists students with newly introduced words in the Slug Science Journey video, song book and additional resources.

## ADDITIONAL ACTIVITIES:

### QUIZ

**DESCRIPTION:** A 12-question quiz, assesses the comprehension of the student after viewing the Slug Science Journey video and reading the song book.

### WATER CYCLE WHEEL ACTIVITY\*\*

### EXPERIMENT\*\*

### NATURE JOURNAL\*\*

**DESCRIPTION:** Students will assemble a nature journal that they can use for reflecting on activities, creating drawings, and any other ways they would like. The journal contains a list of prompts on the inside cover for ideas.

### READING ENRICHMENT PICTURE BOOKS

**DESCRIPTION:** A selection of picture books may be provided in your teacher resource bag.

1. These books focus on this topic and are a part of our park Nature Quest Book Library.
2. Some lessons above may refer to reading one of these books before doing the specific activity.
3. Inside the cover of each book there are additional “connect to nature” activities that you might have fun doing also with your students that connect directly with that book.
4. On these book cards there might be mention of discovery tools (part of our Family Nature Quest backpack program) to use with book activities but if you do not have those in your SCIENCE JOURNEY kits these little extra activities can be done without those specific tools.