# **Integrated Learning Segment**

Two-Week Thematic Unit for Third Grade

By: Lily Ann Smith

Focal Science Standard(s): Life Science: 3.LS.2 Ecosystems: Energy, Dynamics, and

Interactions: Construct an argument to explain why some animals benefit from forming groups.

*Theme/Topic:* Animals that form groups (BEES)



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### Introduction and Rationale (a)

This integrated learning segment is...

The 2-week unit will focus on animals and why some of them benefit from forming groups, by the end of this unit students will be able to identify some animals that form groups and why those animals benefit from forming groups. This topic was chosen because it is part of the third-grade life science standards. Students will specifically be focusing on bees as an animal that forms a group for this unit.

#### Rationale:

The reason for doing this unit is to help students understand why it is important to work together and how it is sometimes more beneficial to work in a group. They will also be meeting the requirements for one of the third-grade life science standards by doing this unit.

### Standard/s Addressed, Goals, and Objectives for the Unit (b)

**Standards addressed.** The primary focal standard is for third grade life science. It involves the ecosystem and the dynamics, energy, and interactions within the ecosystem. It also has an extension of constructing an argument. It wants students to be able to construct an argument to explain why some animals benefit from forming groups.

Goals. The goals of this unit are for children to learn the benefits of animals forming groups and be able to explain the benefits of some animals forming groups. This unit will focus on bees as the animal that forms a group.

### A Curriculum Web (c)

#### **Social Studies**

- -Research the history of animals that form groups and their geographical location.
- Bring economics into lesson by having students determine what animals need to survive and discuss if that is a reason why they need to form a group.

#### Math

- catergorize animals by what ecosystem they live in.
  - graph animals by whay ecosystem they live in.

#### Literacy/Language

- Pulling key words out the books and discussing their importance
- Create a list of vocaublary words pertaining to animals and grouping.
- Read books about ecosystems and animals that form groups.

#### Movement

- -pretending to be a bee and work as a group to see how they benefit from forming a group.
- Participate in an activity that has children split into groups representing different animals and moving to the location in the room designated as their ecosystem.

### **Animals:Forming Groups**

Focal Science Standard:

3.LS.2 Ecosystems: Energry, Dynamics, and Interactions

-construct an argument to explain why some animals benefit from forming groups.

#### Music

 Pick an animal that forms a group and write a song about that animal or write a song about reasons why animals form groups

#### Art

- Create a diorama of a specific ecosystem and include what animals are part of the ecosystem (point out specific animals that form groups).
- create a flipbook about bees and their characteristics, how they benfit from forming groups, and what they need to survive

#### Science

- Life science: Research why animals have been known to form groups and which animals form groups, along with some of their characteristics.
  - $\hbox{-} Technology: use technology to research bees and how they benfit from forming groups.}\\$
- Engineering: Create a tool that animals could use to more efficently collect food or protect themselves, etc.

### Title and Description of Learning Experiences (d)

#### Overview

Students will be learning about animals that form groups. They will be learning the benefits of those animals forming groups. Students will participate in activities that pertain to learning about animals forming groups. Students will focus on bees for one of the lessons. They will participate in an activity where they pretend to be bees and work to see why bees benefit from working in a group. The standard of focus for this unit is 3.LS.2 Ecosystems: Energy, Dynamics, and Interactions. The extension of this standard is construct an argument to explain why some animals benefit from forming groups. This extension will be the main focus of the unit while the rest of the standard will be touched on slightly to give students a basic understanding of the ecosystems part to the standard.

### Calendar

Week 2 of 2

Schedule	Monday	Tuesday	Wednesday	Thursday	Friday
Free Play/Center/ Arrival	Listen to song about bees	Create a bee out of construction paper, googly eyes, and pipe cleaners			
Welcome/Whole Group	Read Are you a bee?	Read The Life and Times of the Honeybee	Read Flight of the Honey Bee	Read The Honey Makers	Read Bees Like Flowers
Small Group	discuss the key elements of the book	Create a story map about the book from whole group			
Transition	Hickity pickity bumblebee say your name with me	Busy bee song	Hickity pickity bumblebee say your name with me	Busy bee song	Hickity pickity bumblebee say your name with me
Snack	Toast with honey				Yogurt with honey
Free Play/Center Time	Incorporate bees into the dramatic play center		Place honey in the kitchen area		
Outdoor Learning/Gross Motor	Get a bee colony to investigate throughout the week		Check and see if the bee colony has grown		Get the honey that the bees have been creating in the colony to use in the classroom
Departure					

<sup>\*</sup> Complete lesson plan

### Week 1 of 2

Schedule	Monday	Tuesday	Wednesday	Thursday	Friday
Free Play/Center/ Arrival	Animal mask craft		Animal finger puppets		Sing animal songs at carpet on arrival
Welcome/Whole Group books	Read Animal Groups: How Animals Live Together		Read A Tower of Giraffes: Animals in Groups		Look at the book Amazing Animal Groups
Small Group	Discuss the elements of the story		Fill out a story map		Talk about which animal group is our favorite
Transition	Animal sounds song	Doggy, doggy where's your bone?	Five little ducks	Itsy bitsy spider	Ants came marching
Snack	Animal crackers		Animal fruit snacks		Trail mix with teddy grahams and goldfish
Free Play/Center Time					
Outdoor Learning/Gross Motor		Go on a "bear hunt"		Outdoor dramatic play area involving animal costumes	
Small Group					
Free Play/Center/ Departure	Dramatic play area with animal costumes		Circle time with an animal sounds book		Animal dance at the carpet

<sup>\*</sup> Complete lesson plan

#### **Titles and Descriptions**

#### Week 1

Day 1 – The students will be introduced to the idea of animals that form groups. They will be shown pictures of animals that form groups. The teacher will bring out books about animals that form groups. Students will work in groups to summarize each type of ecosystem. Students will begin to generalize why animals form groups.

Day 2 – Students will start categorizing animals by the ecosystems they live in. Students will work in pairs and research different animals and see if they form groups.

Day 3- Students will continue research of animals that form groups. Students will pick a specific animal that forms/lives in a group and research why that animal forms a group and how grouping is beneficial to their survival. The teacher will begin to introduce vocabulary words important to animals forming groups and a few pertaining to ecosystems but not quite as many from this.

Day 4- Students will participate in an activity that has them split into groups. They will each be given a different animal. They will work together and maneuver themselves around the room until they find the area of the room designated for the ecosystem their animal belongs to.

Students will also begin to work on creating a song about a specific animal and why they form groups. Students will pick the ecosystem they want to focus on for their diorama.

Day 5- Students will continue working on their songs for the end of the unit. Students will search the classroom for materials for their diorama. If they cannot find what they need they can let the teacher know so she can pick up the materials for them.

#### Week 2

Day 6- Students will begin to discuss bees explicitly. Students will also create a graph with animals that form groups versus animals that do not form groups. Students will collaborate with peers on their songs to get ideas and do a peer review of each other's songs.

Day 7- Students will research bees and why they benefit from forming groups. They will create the bee craft listed on the week one schedule (which should be flipped with the week two schedule). Students will spend the rest of the class working on their dioramas.

Day 8- Students will participate in a bee activity where they pretend they are bees and work together to collect pollen. They will see how bees benefit from forming a group because they can get more pollen if more than one bee is collecting the pollen. Students will finish up their songs after the activity in preparation for presenting their songs to the class on day nine.

Day 9- Students will read a book about bees and fill out a story map about the book. They will also create a craft that coincides with the book. They will then spend the rest of the class performing their songs they have been working on over the course of the two-week unit.

Day 10- This is the last day of the unit and students will be presenting their dioramas to the class. They will explain what ecosystem, animals, plants, etc. they chose. They will also explain why they chose those elements for their diorama. The class will also discuss what ecosystem they think a bee lives in and what part the bee plays in the ecosystem.

## Two Complete Lesson Plans (e)

### Complete Lesson Plan #1:

Lesson Title: Animals forming Groups	Grade/Level: 3rd	Date/Learning Experience #:
		4/4/2018

Lesson Title: Animals forming Groups	Grade/Level: 3rd Date/Learning Experience #: 4/4/2018		
Curriculum Standards	Essential Question		
3.LS.2 Ecosystems: Energy, Interactions, and	Why do some animals benefit from forming groups?		
<del>Dynamics.</del> A) <u>Construct</u> an argument to explain	What are the characteristics of animals that form groups?		
why some animals benefit from forming groups.			
Lesson Objective(s) – Student Learning Outcome(s) for this learning experience			
TLW Identify animals that form groups.			
TLW Explain why some animals form groups.			
TLW Distinguish characteristics of animals that form groups.			
Knowing Your Learners			

Students need to know prior to this lesson what an animal is and what an ecosystem is.

Assessment/Evaluation	
How will students demonstrate understanding of lesson objective(s)?	Assessment Modifications
Informal: I will observe them as they turn and talk with their neighbor to see if they are understanding why animals form groups.	For Tier 2 and Tier 3  TTW will pair them  with another student or
Formal: I will have them fill out a chart. They will have a list of animals and they will sort them on the chart by which animals form groups and which animals do not form groups.	work with them individually or a small group.

Academic Feedback: I will give students oral feedback as they work and after they
complete the activity to help them successfully complete the activity/improve the next
time.
Theory/Rationale for Assessment/Evaluation: I am administering/giving/collecting because my students
need This is appropriate because Provide citation (APA, 6 <sup>th</sup> edition) for theory and/or research.
I am doing this because assessment is important to deteremine the comprehension level of studetns and to
know what you need to review and what you need to build upon. This helps the teacher to be able to
differentiate.
(Van de Walle, Lovin, Karp, Williams, 2014, Page 43).
Academic Language Demands
Function and Product of the Lesson: Construct- students are to construct an argument to explain
Academic Vocabulary
• Explain
Distinguish
• Identify
Content Vocabulary
• Environment
• Animal
• Group

Forming

#### Syntax and/or Discourse (not Early Childhood)

Syntax What are the specific ways or conventions for organizing symbols (e.g., linear, horizontal, words (grammar), phrases, or graphics that students need to know to be able to do what you are asking?

Discourse What are the specific ways in which members of a discipline (e.g., scientist, historian, etc.) talk, write, and communicate knowledge that students need to know to be able to do what you are asking (e.g., essays, presentations, performance, journal, debate, historical account, signal)?

Language Supports What general instruction will you provide to help students in the whole class (e.g., word walls, learning partners, guided notes) learn the discourse/syntax? What focused instruction (e.g., Venn diagrams, graphic organizers, outlines, student examples, sentence stems) will you provide to help students learn the discourse/syntax (can be completed in small groups)? What individual instruction that targets the needs of an individual student(s) will you provide to help that student(s) learn the discourse/syntax? What opportunities will you provide for students to practice language/vocabulary and develop fluency? What tools (e.g., EQ or vocabulary board, Venn diagram, anchor chart, vocabulary cards, graphic organizer, peer support, sentence stems, pictures, table, chart, thinking map, modeling, sort, song, body movements, games) will you use to help students meet the language demands?

**General Supports** – TTW provide a graphic organizer with animals separated by kinds that form groups and kinds that do not.

**Targeted Supports** – During small groups the teacher will adapt the graphic organizer based on the learning level of the students.

**Individual Supports** – For ELL students the teacher will give them the pictures of animals labeled with the English/Spanish word. For students who struggle the teacher will give them the pictures labeled with the names of animals.

<b>Language Theory/Rationale:</b> <i>I am</i>	because my students need	This is appropriate because
Provide citation (APA, 6 <sup>th</sup> ed	dition) for learning theory and/or	research.

We are reviewing and adding words in print to the word wall because the students need to see the words.

(Morrow, 2012, Page 145).

(Van de Walle, Lovin, Karp, Williams, 2014).

Instruction – When designing your instruction, consider when you will implement formal and informal assessments/evaluations, when you will provide feedback, and when you will teach academic language.

Therefore, this section should include aspects written above.

I nerefore, this sec	Therefore, this section should include aspects written above.			
Lesson Part	Description of Activities and Instruction (Teacher Does)	Description of Activities and Instruction (Students Do)	Meeting Individual & Group Needs /Learning Styles Plans instruction to meet the needs of individual students. Adaptations are tied to learning objectives. Specific individual or group learning includes requirements in IEP or 504 plans.	
<b>Set/Motivator:</b> Restate and address your Essential	TTW show the students pictures of	TLW respond to the teacher's		
Question. How do you engage student interest in the content of the lesson?	animals, ecosystems, and groups of	questions about animals,		
How does this relate to previous learning? Use	animals. TTW ask if the students	ecosystems, and groups.		
knowledge of students' academic, social, and cultural characteristics.	know what each of the pictures are or			
	represent.			
Instructional Procedures/Learning	TTW explain what an ecosystem is	TLW will sit in their groups while		
Tasks: Provide specific step-by-step details of lesson content aligned with	(this is most likely review). TTW	the teacher talks about ecosystems		
objectives, utilizing a variety of teaching	review what an animal is and begin	and animals.		
strategies.	discussing with the class why they			
	think animals benefit from forming			
	groups. TTW will then introduce the			
	activity. The teacher will explain what			
	the students need to do to complete			

	their flipbook of the animals that form	
	groups.	
Questions and/or activities for higher	TLW create a flipbook with animals that benefit from forming groups. The	If there is a student that
order thinking: These are open-ended and cannot be answered by yes or no.	students can work alone or with a partner. Students will need to gather their	needs assistance
These can be asked at various points throughout	materials of: cardstock, markers, pencils, etc. They will need to put the	working on the flipbook I will
the lesson and guide rather than direct student thinking.	picture of the animals on each separate page with a name, description, and	pair them with a student I
	why this animal benefits from forming a group. It will work best if the	know will be
	students fold their cardstock in half. When their flipbook is complete they	able to help them.
	will need to staple their flipbooks together.	
Closure: Makes clear connections to real-world	Bring the students to the carpet and	
situations and requires students to reflect on and apply their learning through	have them show their flipbooks to the	
verbal or written expression.	class before departing.	

### Material/Resources/Technology:

- Cardstock paper
- Markers
- Colored pencils
- Crayons
- Pictures of animals
- Animal stickers

Co-Teaching Strategies Used: (highlight and explain all that apply): One Teach, One Observe; One Teach,

One Assist; Station Teaching; Parallel Teaching; Supplemental Teaching; Alternative (Differentiated); Team

Teaching

Instruction Theory/Rationale: I am because my students need This is appropriate because
Provide citation (APA, 6 <sup>th</sup> edition) for learning theory and/or research.
I am using one teach, one assist because I think it is beneficial to have someone assisting during the lesson so all
students can have their needs met quicker than having to sit and struggle while waiting on the teacher.
Meeting Individual & Group Needs Theory/Rationale: I am because my students need This is appropriate because Provide citation (APA, 6 <sup>th</sup> edition) for learning theory and/or research.
Management/Safety Issues
Management Issues: Students will need to recall the classroom procedures.
Safety Issues: Students will be moving around the room so they need to walk to safely complete tasks. They
need to be cautious when using art materials.
References
Tennessee State 3 <sup>rd</sup> grade science standards.
Telliessee State 3 grade science standards.
Williams, L.R. (activity blog)
Morrow, L. M. <i>Literacy development in the early years: Helping children read and write</i> (8 <sup>th</sup> ed.). Boston. Pearson.

### Complete Lesson Plan #2:

Lesson Title: Grade/Level: Date/Learning Experience #:

Curriculum Standards	Essential Question	•
3.LS.2 Ecosystems: Energy, Interactions, and	Why do bees benefit from forming a	groups?
Dynamics. A) Construct an argument to explain why some animals benefit from forming groups.	Why do some animals benefit from forming groups?	
I Objection (A) Constant I Onto an (A) Constant		
Lesson Objective(s) – Student Learning Outcome(s) for this I Demonstrate why it is beneficial to work in a group	•	
, , , , , , , , , , , , , , , , , , , ,	).	
Explain why bees benefit from working in groups.		
Knowing Your Learners	· 1 A · 1 C ·	11.1
Students will need to know what a bee is prior to the	nis lesson. Animais forming a group w	fill be a review in this
since the prior lesson focused on the same standard	d.	
Assessment/Evaluation		
How will students demonstrate understanding of lesson object	tive(s)?	Assessment
		Modifications
<b>Informal</b> : I will observe students as they complete	the activity to see if their	I will modify how I
demonstration is displaying understanding of the st	andard. At the end of the lesson	assess for students with
		TED ' 'T' 4
students will be given a record sheet.		an IEP or in Tier 1.
Formal: At the end of the two-week unit there will form of a unit exam.  Academic Feedback: I will give students oral feed They will be given written on their record sheets.		
Theory/Rationale for Assessment/Evaluation:  need This is appropriate because Properties the same assessment because they will be doing a same assess their understanding is the easiest way to have	rovide citation (APA, $6^{th}$ edition) for theory an active activity for this lesson and us	and/or research.

#### Academic Language Demands

#### Function and Product of the Lesson:

- -Construct- students are asked to construct (build/create) an argument.
- -Explain- why some animals benefit from forming groups.

#### **Academic Vocabulary**

- Construct-build or erect
- Explain- make clear to someone by describing it in more detail or revealing relevant facts or ideas.

#### **Content Vocabulary**

- Ecosystem- biological community of interacting organisms and their physical environment.
- Group- a number of people or things that are located close together or are considered or classed together.
- Animal- living organism that feeds on organic matter, typically having specialized sense organs and nervous system and able to respond rapidly to stimuli.

#### Syntax and/or Discourse (not Early Childhood)

<u>Syntax</u> What are the specific ways or conventions for organizing symbols (e.g., linear, horizontal, words (grammar), phrases, or graphics that students need to know to be able to do what you are asking?

<u>Discourse</u> What are the specific ways in which members of a discipline (e.g., scientist, historian, etc.) talk, write, and communicate knowledge that students need to know to be able to do what you are asking (e.g., essays, presentations, performance, journal, debate, historical account, signal)?

Language Supports What general instruction will you provide to help students in the whole class (e.g., word walls, learning partners, guided notes) learn the discourse/syntax? What focused instruction (e.g., Venn diagrams, graphic organizers, outlines, student examples, sentence stems) will you provide to help students learn the discourse/syntax (can be completed in small groups)? What individual instruction that targets the needs of an individual student(s) will you provide to help that student(s) learn the discourse/syntax? What opportunities will you provide for students to practice language/vocabulary and develop fluency? What tools (e.g., EQ or vocabulary board, Venn diagram, anchor chart, vocabulary cards, graphic organizer, peer support, sentence stems, pictures, table, chart, thinking map, modeling, sort, song, body movements, games) will you use to help students meet the language demands?

General Supports	- Students will be given a set of vocabul-	ary cards adapted to the lesson. The s	tudents will also
have a word wall w	with the terms for the lesson.		
	ts – Students needing a better understand n a better understanding.	ing of the vocabulary will be provided	l with sentence
	rts – If students have a physical delay or ents to assist them in completing the activ	•	other teacher or
	/Rationale: I am because my stud		iuse
I am doing this because I am doing the street	A, 6th edition) for learning theory and/or research cause it will help the students to have the udents with delays or IEPs it is good for	eir own vocabulary words and see th	
Instruction When de	s as their peers.  signing your instruction, consider when you will i	mplement formal and informal accessments/	evaluations when
	ack, and when you will teach academic language.		s written above.
Lesson Part	Description of Activities and Instruction (Teacher Does)	Description of Activities and Instruction (Students Do)	Meeting Individual & Group Needs /Learning Styles Plans instruction to meet the needs of individual students. Adaptations are tied to learning objectives. Specific individual or group learning includes requirements in IEP or 504 plans.
Set/Motivator: Restate and address your Essential Question. How do you engage student interest in the content of the lesson? How does this relate to brevious learning? Use knowledge of students' academic, social, and cultural characteristics.	TTW read a book about bees.	TLW sit and listen to the teacher read the book about bees.	
	i e e e e e e e e e e e e e e e e e e e		

Instructional Procedures/Learning Tasks: Provide specific step-by-step details of lesson content aligned with objectives, utilizing a variety of teaching strategies.	TTW demonstrate the activity by herself. She will collect pollen from one pan and move to the other. TTW time the students to see how much	TLW get in their group and perform the activity and when the activity is complete they will fill out a record sheet with 1-2
	polen they get as a group in the given	sentences describing how it was
	amount of time.	easier collecting the pollen as a
		group.
Questions and/or activities for higher order thinking: These are open-ended and cannot be answered by yes or no. These can be asked at various points throughout the lesson and guide rather than direct student thinking.	Why do you think bees benefit from forming groups?  What other types of animals benefit from forming groups?  How did you benefit from working as a group in this activity?	
Closure: Makes clear connections to real-world situations and requires students to reflect on and apply their learning through verbal or written expression.	TTW Have a short discussion with the children about the activity and how it benefited them to work together instead of alone.	TTL will respond to the teacher during the discussion.

### Material/Resources/Technology:

- Puffballs (used as pollen)
- Spoons (to scoop up the pollen)
- Website (to explain activity)

**Co-Teaching Strategies Used:** (highlight and explain all that apply): One Teach, One Observe; One Teach, One Assist; Station Teaching; Parallel Teaching; Supplemental Teaching; Alternative (Differentiated); Team Teaching

Instruction Theory/Rationale: I am					
Provide citation (APA, 6 <sup>th</sup> edition)	for learning theory and/or research.				
I am using one teach, one observe because i	t is beneficial for the teacher to	o have someone observe while they			
teach so they can get all developmental they	will need about students.				
I am using one teach, one assist because the lead teacher cannot do everything and while the teacher gives					
instruction and helps some students the assisting teacher can help other students.					
Meeting Individual & Group Needs The appropriate because Provide citation					
Instructions will be given orally and visually for students with an IEP. This is so the teacher can make sure that all					
students understand the instructions completely before continuing on with the activity.					
Management/Safety Issues					
,	1 4 41 11 4 11	1 11: 6 1			
Management Issues: Students will need to	o remember to use their listeni	ing ears and walking feet to make sure			
they hear all the instructions and complete a	all the tasks fully and safely.				
Safety Issues: Students will be up moving around during the bee activity					
References	// /2440/ 212				
https://betterlesson.com/next_gen_scien		1-construct-an-argument-that-some-			
animals-form-groups-that-help-members-	survive				
https://museumhack.com/animal-team-b	uilding-tins/				
	<u> </u>				

### Unit Evaluation Plan (f)

#### **Formative**

As they complete the activities in the unit I will observe and make notes of what they are doing to show their understanding of the topic. I will file the anecdotal notes in the students files to keep track of their improvement in this topic.

#### **Summative-**

At the end of the lesson for the university school I will give them a record sheet to fill out to determine their understanding of the standard and the activity. The record sheet will ask the students to write a sentence about why bees benefit from forming a group.

A Letter to Parents (g)

Dear Parents,

Over the next two weeks, we will be exploring animals that form groups and why they benefit

from forming groups. We will do a week unit on bees specifically and why they benefit from

forming a group. Students will be participating in activities across all the curriculum not just

science. If you have any suggestions of activities or ideas for this unit please feel free to share

your thoughts by emailing, calling, or coming by to see me. We would love to see parent

participation in our exploration of this unit. We would also love it if you would encourage your

student to continue their discovery and interest in these animals that form groups at home. I will

send home an at home activity at the end of each week for your student to use at home to

continue to intrigue their interest in this topic.

Thanks.

Ms. Smith

423-330-7928

Smithla5@etsu.edu

### List of References (h)

#### **Teachers**

- Tennessee State Science Standards (3<sup>rd</sup> Grade)
- It's Third Grade Life Science: Life Science Unit 3- LS1, 3-LS2, 3- LS3, 3-LS4 from Teacherspayteachers.com

#### **Families**

• Animals Live in Groups: A Digital Interactive Notebook (Google Edition)

### Children

- Animal Groups: How Animals Live Together
- A Tower of Giraffes: Animals in Groups
- Amazing Animal Groups
- A Paddling of Ducks

### List of Resources Used in the Unit (i)

### Materials and supplies

- Construction paper
- Markers
- Pencils
- Record sheets
- Animal costumes
- Googly eyes
- Paper plates

### **Print and non-print**

- Teacherspayteachers.com
- Digital notebook google edition

### **Technology resources**

- iPad
- SmartBoard
- Computers

### Other