# Lizard Island for Small Groups

This version of the Lizard Island activity is designed for groups of 1 to 15 students.

Follow the step-by-step instructions on this printout. There's no video step-by-step for the "small group" version.

### **Activity Prep:**

#### Step 1: Print materials

For each group of 3 students, print one set of Adopt A Lizard sheets (labeled A, B, & C).

- For 1 to 3 students, print 1 set.
- For 4 to 6 students, print 2 sets.
- For 7 to 9 students, print 3 sets.
- For 10 to 12 students, print 4 sets.
- For 13 to 15 students, print 5 sets.

For the entire group, print

- A set of Small Group <u>Baby Lizard Cards</u> (3 sheets)
- A set of Small Group Little Lizard Cards (3 sheets)

For each student, print

One How Many Lizards sheet

#### Step 2: Cut up the cards

Cut the Little Lizard Cards along the dotted lines so you have ten A cards, ten B cards, and ten C cards:



• Cut the Baby Lizard Cards apart on the dotted lines so you have 6 Baby Lizard cards:



## **Step-by-Step Instructions**

1. Tell your students:

There are lizards on Lizard Island that are excellent climbers, ones that are good climbers, and ones that are not-so-good at climbing. To figure out how good a climber a lizard is, you have to count the toe scales on the lizard's big toe.

2. Give each student an Adopt A Lizard card. Each Adopt A Lizard card shows a closeup photo of the big toe of a lizard. There are three different cards, each with a different lizard: A, B, and C.





3. Ask students to count the toe scales so you know how the number of toe scales each lizard has. There is a line to each toe scale (see picture below) to make counting easy. If you only have one student, they'll have to count the scales on all three lizard toes!



4. At the bottom of the card, circle what kind of a climber your lizard is. The number of scales tells you which one to circle. After students count the scales, have them circle what kind of climber their lizard is. If the lizard has 23 or more scales, it's an excellent climber. If it has 19 to 22 scales, it's a good climber. If it has 18 or fewer scales, it's a not-so-good climber.

Circle the	e kind of climber th	is lizard is:
23 or more scales =	19 to 22 scales =	18 or fewer scales =
Excellent Climber	Good Climber	Not-So-Good Climber

5. Tell your students:

Before the brown anoles get to Lizard Island, there are 30 green anoles living on the island. Ten of them are excellent climbers, ten are good climbers, and ten are not-so-good climbers. Fill those numbers in on the Original Lizards side of your How Many Lizards printout. Use your Little Lizard Cards to represent all these lizards.

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ORIC	INAL LIZARDS (GENERATION T)
When brown lizzeris came to the island, the green lizzeris caudi climb trees. But some green lizzeris were better climbors than other There are <u>could</u> climbors There are <u>could</u> climbors There are <u>Het So Good</u> Climbors To make a bar graph, color in a box for each lizz	Loder Gener Michiger Michiger
BA	BY LIZARDS (GENERATION 2)
This is what the green loand babies were like after the brown loands arrived. There are Evaluet Climbers There are Red Subsets There are Hels-Soded Climbers To make a bag graph, color in a bac for each loan	States Galars Billions Billions Billions

Fill in the graph on the TOP of the page ("Original Lizards")

6. To make a graph from the numbers, color in a box for each Excellent climbing lizard. Do the same for Good & Not-So-Good climbers.



7. Watch the video after the first step-by-step to find out what happened to the green anoles after the brown anoles arrived.



- 8. Now it's time to figure out which green anoles are caught by the brown anoles. Tell your students the following, and take away cards as noted:
  - The Not-So-Good climbers are easiest to catch only two of them survive. Take away 8 of the lizards labeled A, the not-so-good climbers.
  - The Good climbers are harder to catch half of them survive. Take away half of the lizards labeled B, the good climbers.
  - The Excellent climbers are the best at getting away only two of them get caught. Remove 2 the lizards labeled C, the excellent climbers.
- 9. Mix up all the remaining Little Lizard Cards and put them into pairs. Each pair is going to make a lizard family. One is the father lizard and the other is the mother lizard. We have named the families after the mother-father combination. If one lizard parent is a Good Climber (B) and the other parent is an Excellent Climber (C), then this is family BC. Family combinations can be AA, AB, AC, BB, BC, or CC. Each pair of lizard parents will make 4 lizard babies. What kind of climbers will those babies be? Well, that depends on what their parents are like.

10. Have your students use the 6 Small Group Baby Lizard Cards to figure out the number of toe scales on the babies from each combination. Once they know that, they can circle the kind of climber those babies are, and figure out how many babies there will be for that combination.

💉 Combination AA	Combination AB	Combination AC	Combination BB	Combination BC	Combination CC
1. Contraction of the second s	A CONTRACTOR	ESHEPATION 2	GENERATION 2	CR GENERATION 2	GENERATION 2
Baby Lizard	Baby Lizard	Baby Lizard	Baby Lizard	Baby Lizard	Baby Lizard
w many tao scales doos way halv licard hav?	New more tax scales days your halvy licard have?	How many the scales does your haby lizard have?	How many too scales doos your baby lizard have?	How many too scales does your baby lizard have?	How many too scales does your baby lizard have?
1 Write down how many loss scales each correct has	Stop 1: Write down how many loss scales each correct has.	Step 1: Write down haw many toes scales each parent has.	Step 1: Write down have many taxs scales each parent has.	Step 1: Write down how many teen scales each parent has	Step 1: Write down how many toos scales each parent has.
Toe scales an parent #118	Too scales an parent #118	Toe scales an parent #118	Teo scalos en parent #120	Tae scales en pornet #120	The scales on parent #126
Too scales an parent #218	Too scales an parent #220	Too scales on parent #2:26	Teo scales an parent #220	Tae scales on parent #226	Teo scales en parent #2:26
BP 2: Add these numbers legether. The sum of the parents' for scalar anothic	Step 2: Add these numbers together. The sum of the parents'	Step 2: Add these numbers together. The sum of the parents' for prodes counts'	Step 2: Add these numbers together. The sum of the parents' tre scales equals	Step 2: Add these numbers tegether. The same of the parents' tes scales counts	Step 2: Add these numbers together. The sum of the parents' tas scales equals
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The sum divided by 2 equals This is how many the scoles the bady has.	The sum childred by 2 equals This is here many the scales the hale has.	The sum divided by 2 equals This is new many far scales the bady has.	The sum choided by 2 equals This is how many the scales the body has.	The sum childed by 2 equals This is here many too scales the baby has.	The same chvided by 2 equals This is how many fee scales the baby has.
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			Circle the kind of clim Multiply number of Liz	ber this lizard is. Yard Families by 4 to get # of l	babies =
			23 or more scales =	19 to 22 scales =	18 or fewer scales =
			Excellent	Good	Not-So-Good

At the bottom of each of these, it says:

11. Now it's time to fill in the second graph on the How Many Lizards printout.

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When brown lizards came to the island, the green lizards could climb trees. But some green lizards neve better climbers than others. There are Excellent Climbers 	tester Cistors
There are Good climbers There are Not So-Good Climbers To make a bar graph, color in a box for each lizard.	Clarker Hr.15.Ood Clarker
BABY LI	ZARDS (GENERATION 2)
This is what the groon lizard babies were like after the brown lizards arrived. There are Excellent Climbers There are Geed Climbers There are Not Se-Geed Climbers	Sadadi Calabian Med Sadadi Calabian

 $\leftarrow$  Fill in the graph on the BOTTOM (Baby Lizards).

- Add up how many babies are Excellent climbers and graph that on the Baby Lizards tree.
- Add up how many babies are Good climbers and graph that on the Baby Lizards tree.
- Add up how many babies are Not-So-Good climbers and graph that on the Baby Lizards tree.
- 12. Watch the final videos.

