

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. We are still testing this version and appreciate any feedback you might have.

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

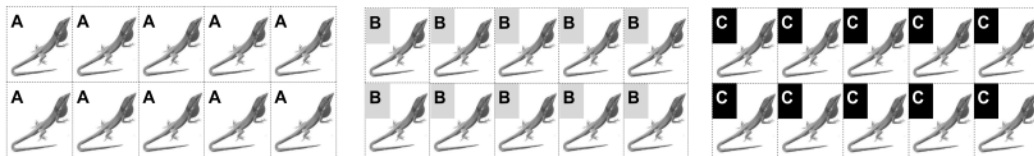
- A set of Small Group [Baby Lizard Cards](#) (3 sheets)
- A set of Small Group [Little Lizard Cards](#) (3 sheets)

For each student, print

- One [How Many Lizards sheet](#)

Step 2: Cut up the cards

- Cut the little lizard cards on the dotted lines so you have ten A cards, ten B cards, and ten C cards:



- Cut the Baby Lizard pages apart on the dotted lines so you have 6 Baby Lizard cards:

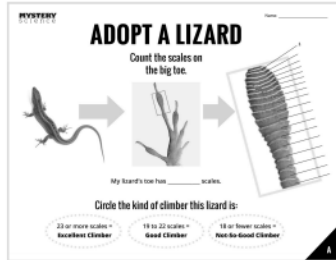


Step-by-Step Instructions

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 sticky 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.



← Note the bottom right corner. This is Lizard A.

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.



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.

MYSTERY science **HOW MANY LIZARDS?** Name _____

ORIGINAL LIZARDS question 1

When brown lizards came to the island, the green lizards could climb trees. But some green lizards were better climbers than others.

There are _____ excellent climbers.

There are _____ good climbers.

There are _____ not-so-good climbers.

To make a bar graph, color in a box for each lizard.

Lizard colors: _____

Excellent climbers: _____

Good climbers: _____

Not-so-good climbers: _____

BABY LIZARDS question 2

This is what the green lizards babies were like after the brown lizards arrived.

There are _____ excellent climbers.

There are _____ good climbers.

There are _____ not-so-good climbers.

To make a bar graph, color in a box for each lizard.

Lizard colors: _____

Excellent climbers: _____

Good climbers: _____

Not-so-good climbers: _____

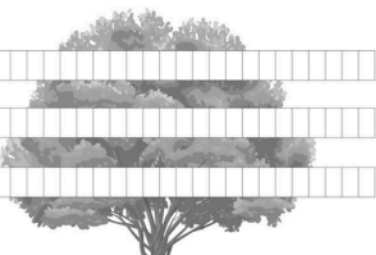
Fill in the graph on the LEFT side of the page (“original lizards”) →

- 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.

Excellent climbers: _____

Good climbers: _____

Not-so-good climbers: _____



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



- 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.*
- 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. 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.
- Have your students use the 6 Small Group Baby Lizard Cards to figure out the number of toepads 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
GENERATION 2
Baby Lizard
 How many lizards does your baby lizard have?
 Step 1: Write down how many lizards each parent has.
 The scales on parent #1: 18
 The scales on parent #2: 20
 Step 2: Add the scales together.
 The sum of the parents' lizards equals: _____
 Step 3: Divide the sum by 2.
 The sum divided by 2 equals: _____
 This is how many lizards the baby has.
 Circle the kind of climber the lizard is.
 Multiply number of lizards by 4 to get # of children.

Combination AB
GENERATION 2
Baby Lizard
 How many lizards does your baby lizard have?
 Step 1: Write down how many lizards each parent has.
 The scales on parent #1: 18
 The scales on parent #2: 20
 Step 2: Add the scales together.
 The sum of the parents' lizards equals: _____
 Step 3: Divide the sum by 2.
 The sum divided by 2 equals: _____
 This is how many lizards the baby has.
 Circle the kind of climber the lizard is.
 Multiply number of lizards by 4 to get # of children.

Combination AC
GENERATION 2
Baby Lizard
 How many lizards does your baby lizard have?
 Step 1: Write down how many lizards each parent has.
 The scales on parent #1: 18
 The scales on parent #2: 20
 Step 2: Add the scales together.
 The sum of the parents' lizards equals: _____
 Step 3: Divide the sum by 2.
 The sum divided by 2 equals: _____
 This is how many lizards the baby has.
 Circle the kind of climber the lizard is.
 Multiply number of lizards by 4 to get # of children.

Combination BB
GENERATION 2
Baby Lizard
 How many lizards does your baby lizard have?
 Step 1: Write down how many lizards each parent has.
 The scales on parent #1: 20
 The scales on parent #2: 20
 Step 2: Add the scales together.
 The sum of the parents' lizards equals: _____
 Step 3: Divide the sum by 2.
 The sum divided by 2 equals: _____
 This is how many lizards the baby has.
 Circle the kind of climber the lizard is.
 Multiply number of lizards by 4 to get # of children.

Combination BC
GENERATION 2
Baby Lizard
 How many lizards does your baby lizard have?
 Step 1: Write down how many lizards each parent has.
 The scales on parent #1: 20
 The scales on parent #2: 20
 Step 2: Add the scales together.
 The sum of the parents' lizards equals: _____
 Step 3: Divide the sum by 2.
 The sum divided by 2 equals: _____
 This is how many lizards the baby has.
 Circle the kind of climber the lizard is.
 Multiply number of lizards by 4 to get # of children.

Combination CC
GENERATION 2
Baby Lizard
 How many lizards does your baby lizard have?
 Step 1: Write down how many lizards each parent has.
 The scales on parent #1: 20
 The scales on parent #2: 20
 Step 2: Add the scales together.
 The sum of the parents' lizards equals: _____
 Step 3: Divide the sum by 2.
 The sum divided by 2 equals: _____
 This is how many lizards the baby has.
 Circle the kind of climber the lizard is.
 Multiply number of lizards by 4 to get # of children.

Circle the kind of climber this lizard is.
Multiply number of Lizard Families by 4 to get # of babies = _____

23 or more scales =
**Excellent
Climber**

19 to 22 scales =
**Good
Climber**

18 or fewer scales =
**Not-So-Good
Climber**

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/Baby Lizards.

MYSTERY
HOW MANY LIZARDS?

ORIGINAL LIZARDS

When lizards first came to the island, the green lizards could climb trees, but some green lizards were better climbers than others.

There are _____ excellent climbers.

There are _____ good climbers.

There are _____ not-so-good climbers.

To make a bar graph, color in how many lizards.

BABY LIZARDS

This is what the green lizard babies were like after the lizards arrived.

There are _____ excellent climbers.

There are _____ good climbers.

There are _____ not-so-good climbers.

To make a bar graph, color in how many lizards.

← Fill in the graph on the RIGHT side of the page now.

- 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 video.

