




# ANNABELLE & THE COGLO AMIGOS PILOT STUDY

2022-2023 Outcomes





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## I. Executive Summary

Annabelle and her colorful friends, the CoGlo Amigos, are the cast of a series of children's books by South Carolina-based author Rhonda Atkins Leonard. Thanks to a \$900,000 Innovation Grant through the S.C. Department of Education, a series of 10 short (one- to two-minute) videos were developed for South Carolina Educational Television (SCETV) using the state's Early Learning Standards and Profile of the Ready Kindergartner.

A Spartanburg-based educator took the books and videos and developed 10 lesson plans to roll out in a pilot program that was offered to approximately 50 public and private 4K classrooms around Spartanburg County. Twenty-nine opted to participate, and every student in a participating classroom was given a copy of the book *Annabelle's Best Spring Ever*.

Students took pre- and post-assessments to measure their improvement in three areas: ordering, retelling, and counting.

The concept of ordering is on the Kindergarten Readiness Assessment (KRA) and was chosen because it is an abstract skill students can practice throughout the year. Retelling is a foundational skill to help students recall and identify important parts of a story. And counting was chosen because 4K students need continuous practice with this concept in order to understand addition and other mathematical concepts.

Overall, students overwhelmingly either maintained or improved between the pre- and post-assessments in all three areas – ordering (99.2%), retelling (99.8%), and counting (98.6%).

Specifically, the percentage of students who showed measurable improvement from pre- to post-assessment was the most encouraging – ordering (53%), retelling (56%), and counting (41%).

In statistics, McNemar's Test is a statistical test used on paired nominal data. The McNemar Test is used to determine if the proportions of categories in two related groups significantly differ from each other. In each of the three assessments administered in the Annabelle pilot study, it was concluded that there was a significant difference after the treatment, which was defined as the lessons conducted using the accompanying Annabelle book.

Leonard and her team met with teachers for a professional development session before launching the pilot program; one called the lessons "engaging and interactive." Teachers were also surveyed before and after the program for their feedback.

The lessons included at-home activities for students to complete with their parents. Among the parent feedback that was received, one remarked that the activities were helpful "to parents who have never led their child through a book." Several said their child was excited about the book and shared it with their siblings.

Teacher and parent feedback will be used to further develop the CoGlo Amigos program to roll out to South Carolina classrooms statewide.



## II. From Canvas to Classroom

Annabelle is a colorful giraffe whose optimism is as bright as her spots. No matter what the situation, Annabelle always looks for the silver lining. She wants to make every day the best ever, and she encourages her eclectic group of friends, the CoGlo Amigos, to do the same – Mingo Rose the Elephant, Leonard the Lion, Rico the Cheetah, Glory the Zebra and Gazzie the Gazelle.

Annabelle and her friends are preparing for a lifetime of adventures and along the way they teach lessons to their young fans – to treat other people with respect, for instance, or that it is OK to be scared. Our mission is to make learning fun.

Early childhood learning is key to a student's long-term success, yet only 41% of South Carolina students in state-funded CERDEP demonstrated a readiness to learn upon entering kindergarten in the 2022-23 school year. CERDEP (Child Early Readiness and Development Education Program) classrooms were chosen to ensure continuity throughout the pilot program.

Through a partnership with SCETV, the CoGlo Amigos team has developed several 1- and 2-minute interstitial animated videos. The videos – including “Meet the CoGlo Amigos,” “First Day of School,” “Learning Can Be Fun,” “Rise & Shine” and “Annabelle Goes to the Dentist” – began airing in a daily rotation in September. A later episode, “Imaginary Field Trip” showcased recreational and historic attractions across South Carolina. This episode in particular can easily be tailored to fit such attractions in any state.

The ETV series draws on the curriculum outlined in the South Carolina Profile of the Ready Kindergartner and the state's Early Learning Standards. The target audience for videos that have been developed is 4-year-old children in South Carolina.

CoGlo Amigos storylines are developed with such competencies as:

- Approaches to learning and inquiry
- Physical development, self-help and motor skills
- Emotional and social development
- Mathematical thinking
- Language and literacy development

The CoGlo Amigo's world is based on four children's books by author and illustrator Rhonda Atkins Leonard. Each of the first four books focus on a different season. The next four books, currently in development, will see Leonard the Lion take the lead.

Rhonda first painted Annabelle in 2005, and her brightly colored friends soon followed. The books and video began development with The Palladian Group in Spartanburg, S.C., in 2020.





### III. About the Author

NEWS

## Spartanburg County author sees her characters come to life with launch of SCETV videos



**Ashley Dill**

Herald-Journal

Published 8:41 a.m. ET Aug. 27, 2021

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### PHOTOS: Author Rhonda Leonard in her home studio

Children's book author Rhonda Leonard in her home studio in Duncan

Rhonda Atkins Leonard walks around her bright and colorful art studio in her Duncan home, a direct reflection of a world she created for Annabelle and her CoGlo Amigos in her children's book series, The Annabelle's Best Ever series.

The series of books takes young readers on Annabelle's adventures through the seasons. Leonard's latest book, "Annabelle's Best Fall Ever," launched Thursday at Spruce Curated Interiors on Pine Street in Spartanburg, along with a wide-ranging product line and a new special partnership with South Carolina ETV, the state's public educational broadcasting network.

“It was sort of breathtaking to see Annabelle animated the first time.” Leonard said. “To see her move. It was so different to take her from paper to there she is walking.”

The animation team at the Palladian Group has worked the past 9 months to bring Leonard’s watercolor paintings of Annabelle and the CoGlo Amigos to life. Ten 1-minute interstitial videos are now in various stages of production with SCETV, using the state’s profile of the Ready Kindergartener as a framework for the content.

“Animation was never really in the plans for Rhonda.” said Rob Springer, Chief Operating Officer and Media Director for the Palladian Group. “But it was very obvious to me that we needed to make Annabelle move. She was so visual and ready to be turned into animation. Our team came on board really quickly to bring Annabelle to life.”

Leonard found inspiration for Annabelle through a friend’s South African safari. She was looking through her pictures from their trip and says something just “clicked.” Leonard and her husband of 41 years, Brian, are animal-lovers and share their home with 11 cats and one dog, all rescues.

Seeing the photos from her friend’s safari trip inspired Leonard to first paint a giraffe, using all the bright colors she loves. She soon followed up the painting of the giraffe with paintings of an elephant, cheetah, zebra, and lion; making up the CoGlo Amigos.

The CoGlo Amigos are:

- Mingo Rose the Elephant, named after the two pink paints, that make up her colors: “Permanent Rose and Flamingo Pink.”
- Rico the cheetah, a name Leonard has always thought was cute.
- Glory the Zebra, named in honor of one of her friend’s horse who had recently died.
- Leonard the Lion, honoring her last name.
- Gazzy the Gazelle, because she has always liked names with Z’s.

## Discovering her love of watercolors

Leonard took her first watercolor class 20 years ago after discovering Bärbel Amos’ framing and art studio in Greer. She used to shop there with her mother and was always so impressed with Bärbel’s watercolor paintings. Drawing was Leonard’s medium of choice, but once she tried watercolors, she was hooked.

And she created Annabelle the Giraffe in her home studio in 2005 with all of the whimsical, bright colors. She then painted all of Annabelle’s friends - now the CoGlo Amigos - in succession and carried on the bright color theme, even redecorating her home studio to match Annabelle’s color scheme.



Local author and illustrator Rhonda Leonard works on a watercolor at her home studio in Duncan, Thursday, August 19, 2021. Leonard, the creator of the popular children's book series "Annabelle's Best Ever," talks about her upcoming books and projects. *TIM KIMZEY/Spartanburg Herald-Journal*



After painting watercolors of Annabelle for several years, Leonard said she felt Annabelle also had a story to tell. And she wanted that story to be geared toward children, bringing children happiness, and ways children can have the "best day ever."

Annabelle isn't just a colorful giraffe with bright spots. Those bright spots signify all of the warm feelings she has on the inside. She goes on adventures with her friends, learning to share and count. She even sleeps under the stars and goes ice skating in Central Park. All of these sound like fun experiences, but they are also educational for children, closely following the guidelines by SCETV's Ready Kindergartner curriculum.

"The profile of the Ready Kindergartner is all about helping parents and caregivers identify the developmental milestones and cognitive social and emotional skills that are advantageous in kindergarten success." Salandra Bowman, Interim Vice President of Education said. "This series does address social and emotional development, and there are some episodes that focus on numbers sense, physical development and motor skills. I know those three areas are addressed within the series."

After writing her first few Annabelle adventures, Leonard reached out to The Palladian Group for advice on licensing and marketing the product. The Palladian Group provided the licensing and marketing advice she was seeking, but according to Leonard, they provided much more. Their design and animation team brought her dream to life.



"I knew Annabelle needed to be classical," Leonard said. "My characters aren't cartoon-like. They are pretty and classical, and The Palladian Group moved like lightning once they met Annabelle and just fell in love with her and her stories."

Thursday's book launch of "Annabelle's Best Fall Ever" rounds out the series based on Annabelle's adventures during fall. Other collections of the book series include "Annabelle's Best Winter Ever," "Annabelle's Best Spring Ever," and "Annabelle's Best Summer Ever."

The launch also featured an extensive product line that includes backpacks and lunch sacks, throw pillows and bean bag chairs.

According to Jeremy Cauthen of SCETV, Annabelle's Best Ever series will premiere on SCETV network in early 2022.

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## IV. Historical Overview and Implementation Strategy

Prompted by the need to increase early childhood learning in South Carolina, CoGlo Amigos applied for an Innovation Grant through the South Carolina Department of Education (SCDE) to provide print and video content to 4-year-old children in the home and in classrooms to help fill the void created by pandemic-related disruption and to better prepare students for kindergarten. These children's books and videos were developed based on South Carolina's Early Learning Standards and competencies from the S.C. Profile of the Ready Kindergartner. CoGlo Amigos was awarded \$900,000 for the 2022-23 school year to fund the animation series, books for teachers, parents, and students, curriculum development, and evaluation of the project that will be a model for other states to address needs and deficiencies in early childhood education.

Before statewide implementation in the 2023-24 school year, CoGlo Amigos conducted a pilot program in Upstate South Carolina in Spring 2023, offering the program to over 30 public and private 4K classrooms. This opportunity included a pre- and post-assessment, 10 lessons aligned to South Carolina Early Learning Standards, parent activities, the Annabelle plushie, and a copy of *Annabelle's Best Spring Ever* to the teacher and all students in every pilot classroom. Professional development was offered to teachers in February 2023, and implementation of the project began in March 2023. Following implementation, analysis of the assessment results was conducted in April 2023, which included surveys administered to teachers that provide feedback to make improvements to the lesson plans and the overall process.





## V. Presentation to Spartanburg County School District to Determine Pilot Study Participation

CoGlo Amigos representatives initially met with Dr. Russell Booker, executive director of the Spartanburg Academic Movement (SAM), to introduce the Annabelle project and gain support for the pilot program. SAM works closely with all seven Spartanburg County school districts, and the organization has cradle-to-career readiness as a core focus.

Following that conversation, Dr. Booker arranged a meeting with the seven Spartanburg County superintendents in January 2023 for the CoGlo Amigos team to present the elements of the Annabelle pilot project and offer participation to all 4-year-old kindergarten CERDEP classrooms in Spartanburg County.

There are a variety of 4-year-old kindergarten (4K) options in South Carolina available to families. These 4K programs have a variety of funding sources. CERDEP 4K programs in public schools are state-funded and run by the local school district. Students must be 4 years old on or before September 1 of that school year, and families must meet a poverty threshold of less than 185 percent of the federal poverty rate. This age level was chosen so that there would be continuity in the types of classes reflected in the pilot study.

Following the meeting with the superintendents, the CoGlo Amigos team presented the elements of the Annabelle pilot study to instructional leaders in each district. As a result, Spartanburg School Districts 2, 3, 5 and 7 chose to participate, along with some private organizations in the Landrum, Inman and Campobello areas. In total, 29 classrooms and approximately 500 students in Spartanburg County took part in the Annabelle pilot study.



## VI. Professional Development

On February 13, 2023, training for the pilot study was conducted at two different locations. In the morning, teachers from Spartanburg School District 2 were given an in-depth review of the pre- and post-assessment items, each of the 10 lessons, a copy of *Annabelle's Best Spring Ever*, and an Annabelle plushie that the teacher could use during the pilot program. Teachers were surveyed after the session, and all feedback was reviewed and incorporated accordingly.

In the afternoon, teachers from Spartanburg School Districts 2, 3, 5, 7 and participating private organizations were given the same instruction. Teachers were again surveyed after the session, and all feedback was reviewed and incorporated accordingly. Survey questions centered on aspects of the training session, materials and supplies, and any concerns that the instructors may have not gotten addressed during the training.

During each session, all teachers were given the opportunity to provide insight on each lesson. The instructor provided a list of all observations that were offered by the participants, and that list was then shared with all participants. For this pilot study, it was imperative that teachers had the opportunity to voice their opinion on the curriculum materials.



# **Teacher Survey**

## **After Training / BEFORE Lesson Completion**

- Name:
- School:
- What components of the training were most beneficial to you?
- Do you feel you have all the materials needed to complete the activities? If not, please indicate what materials you may need.
- What questions do you have about the curriculum that were not answered in the training?
- Other Comments

## Observations from Professional Development

- There are a lot of communication standards.
- Giraffe activity can be displayed in the hallway or classroom to show what we learned.
- Gives the teacher opportunities to model online research to 4-year-olds.
- Allows students to have their learning on anchor charts through dictation.
- The lessons extend vocabulary and encourage writing.
- Students can create envelopes to go along with the invitations.
- Lessons provide ownership and authenticity.
- Children will love making their own invitations to the party.
- Lessons are engaging and interactive.
- Provides opportunities for movement and conversation.
- Fits well with IB curriculum at our elementary school.
- Children will love colorful masks and retelling the story.
- A lot of math and students can have the opportunity to learn about symmetry.
- Brings in shape identification.
- Standards are appropriate and promote conversations and peer interactions.
- Active involvement – comparing heights of animals.
- Brings in science through animal naming.
- Have children compare their height with classmates – extension.
- Incorporates letter sounds into the lesson.
- The timing is appropriate for measurement.
- You could reorder the giraffes to make the activity more challenging.
- You can measure stuffed Annabelle with linking cubes.
- Teaches students to start at a particular point when measuring.
- Review 1:1 correspondence with counting cubes (good practice).
- Provides students the opportunity for independent practice.
- Teachers like the scavenger hunt around the room.
- Like comparing fiction to nonfiction.
- Overlap sequencing skills.
- Children will enjoy the math lessons (sorting flowers / adding dots / bright and fun colors).
- Students can create patterns when coloring Annabelle.
- Teachers can plant bulbs.
- Pictures are really colorful.
- Instead of a mask, they could make puppets with popsicle sticks.
- Teachers could use Fruit Loops instead of Cheerios.
- Students can learn how to address and label envelopes.
- Provide a class list to practice name writing.
- Model how to fold paper to put in an envelope.
- Designate mail person to distribute invitations to peers.
- Create an individual or provide a class mailbox.
- Invite someone from the post office to speak to class.





## VII. Pilot Study Results

### A. Teacher Responses

Each teacher was given a copy of *Annabelle's Best Spring Ever* for use in the classroom, and each of the students were given a copy to take home. Each teacher received 10 lessons aligned to South Carolina Early Learning Standards. The CoGlo Amigos team also provided each teacher with all materials needed to complete the lessons. The assessments were chosen based on skills that 4K students need to be successful in kindergarten as well as on the Kindergarten Readiness Assessment (KRA). Many of the teachers should have taught these skills (ordering, counting, and retelling) throughout the school year.

Based on the post-pilot feedback received, teachers were very positive and enjoyed the lessons. Teachers shared new ideas to add to the set – lessons on patterns, for example, as well as adding more vocabulary to the lessons. The lessons and assessments were reviewed, and the decision was made to administer one pre-assessment at the beginning of the year and then one post-assessment after reading all four books at the end of the year. By offering a pre-assessment and post-assessment at the beginning and then end of the year, we will be able to notice the growth and success of each 4K child over the course of a school year.

### Teacher Testimonials

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"The students enjoyed the lessons and the book."

"The lessons went well, students enjoyed them."

"I think the assessments were appropriate."

"My students loved meeting Mrs. Leonard and her giraffe friend."

"The lessons were easy to follow and fit in well."

"Students enjoyed having their own copy of the book."

"The children enjoyed the bright colors in the book and the lessons."

"Everything went great! The class enjoyed all of the different activities that went along with Annabelle."

"We absolutely loved this book."

"Very organized."

"The book is very colorful and the students enjoyed the vibrancy."

"Loved reading Annabelle to my class. They were very engaged."

"The children were very engaged during the lessons."

"The students exceeded expectations in many areas. The students were also engaged and able to relate to the book and enjoyed the topic."

"I learned that my students are great at recalling details and are ready to advance in their thinking."

"We LOVED meeting Annabelle and her friends!"

"I learned that 4K students are capable of great things. I was reminded how important high expectations are in the classroom."

"The students and parents really loved Annabelle! Everything was great!"

"The children were very excited about Annabelle. They loved learning about animals, colors, counting, and retelling, and so much more!"



## **Teacher Survey**

### **After Lesson Completion**

- Name:
- School:
- How do you feel the implementation of the lessons went in your classroom?
- What did you learn from your students during the assessments? Could changes be made to the assessments? If so, please explain.
- What topics would you like to see included in future lessons?
- Other Comments

## B. Parent Responses

Reading at home is a fundamental skill for young children. As part of the pilot study, parents were asked to engage their children at home with several activities that incorporated *Annabelle's Best Spring Ever*, activities that mimicked what their child was doing at school during the 10-day pilot study. Activities included retelling the story, going on a letter hunt around the house, drawing pictures of the animals, and making observations about the flowers that were outside of their house, among others.

Upon completion of the pilot program, parents were asked to complete a short survey about these activities and their involvement. In all, 488 surveys were disseminated, and 205 surveys were returned, yielding a 42 percent return rate.

Parent survey results were shared with teachers, which in turn helped them continue to engage the parents. The responses from the parents were overwhelmingly positive, and many of the parents commented on the excitement that the book brought to their child. This report captures some of those testimonials, providing responses from each classroom that participated in the pilot study.

### Parent Testimonials

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"This whole process is great. Getting parents involved helps the children."

"This has helped him when we read books together, he now looks at the pictures and associates it with the letter it starts with."

"I do believe it was helpful for them to learn at home as well as school. Learning can take place in every moment, every situation."

"We would love to do this more often."

"This book was kid-friendly!"

"Reading this book could help other families identify many different animals shown in the book."

"It was nice to be invited to school and see my son's class. I work two jobs, so I am not able to go much."

"The scavenger hunt was the best. It made him use his thinking skills."

"Great family activity."

"Parent involvement makes all the difference."

"He talked about this story non-stop!"

"She even had her sisters help her search for things around the house."

"We loved reading at home after she read it at school, and she could tell me all about it. We loved this book!"

"My child really enjoyed this book and being able to bring the book home to share with her brother. My child was very excited the author came to read to the class."

"We love how interactive this lesson has been."

"We will be implementing some of the tips in future reading."

"Just let your imagination go on a trip and listen to your child's ideas and don't try to change their opinion."

"This book has sparked my child's interest in reading."

"These activities have allowed spending time together and enjoying each other."

"I feel that this is helpful to parents who have never led their child through a book."

"I think it was helpful so we can go over things that she learned in class."

"This is a great book."



## Parent Testimonials (Cont.)

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"It was helpful to have homework to prepare for K."

"He is now more observant of stuff around him. Bonding time is so important."

"I feel very comfortable with activities like this because it's different and helps them think outside the box! We should do this every year."

"He loves the book. Ever since we brought it home, we have to read it every night."

"Being able to sit with my child and letting him feel like he was in charge of the activity made him feel so special and smart."

"I think what helped a lot was having the colors in the book and how they used the color for the spelling."

"My son loved pretending each animal was a member of our family."

"He talked about it at home, which he doesn't usually do with other books."

"Yes, this activity helped my son think outside the box and he really enjoyed it. He thought it was fun."





# **Parent Survey**

## **Annabelle Best Spring Ever**

- School Name:
- Please share your child's experience with the story *Annabelle's Best Spring Ever*.
- What components of the family day did you enjoy?
- Did you find the activities you did at home to be helpful to your child's learning?
- What questions or activities did you discover during this experience that may be helpful to other families in the future?
- Do you feel the parent activities were helpful in making your child successful in their 4K classroom?
- Other Comments?

## C. Student Outcomes

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Twenty-nine classrooms participated in the pilot study, using pre- and post-assessments in three areas: ordering, retelling, and counting.

In the **Ordering Assessment**, students were asked to put picture cards of several animals – giraffes, leopards, elephants, zebras, and birds – in order from shortest to tallest. Ordering is a skill students will practice often in kindergarten math. The concept of ordering is also on the KRA assessment. This is an abstract skill for students to fully grasp. It was chosen to provide 4K students with the opportunity to practice ordering throughout the school year as they prepare for kindergarten. If a student could put at least two animals in the correct order, they would score a B (Beginning). If a student could put at least three or four animals in the correct order, they would score a P (Progressing). Lastly, if the student could put all the animals in order from the shortest to tallest, they would score an M (Mastered).

In the **Retelling Assessment**, students were asked to recall events from *Annabelle's Best Spring Ever*. Retelling is a foundational skill to help students recall events and identify the important parts of a story. During the assessment, if students could recall at least one or two events from the story, they would score a B (Beginning). If the students could recall at least three to four events from the story, they would score a P (Progressing). Lastly, if the students could recall at least five events from the story they would score an M (Mastered). Students should make progress in this assessment because they were able to read and complete activities over multiple days to help recall events from *Annabelle's Best Spring Ever*.

In the **Counting Assessment**, students were shown a number card and they used counters to add the correct amount to Annabelle the giraffe. Teachers could choose any counter that was in their classroom – dots, for example. In the second part of the assessment, students were asked to add counters to a given amount. For example, if the teacher placed three dots on Annabelle, the teacher would then ask the students to place the correct amount to make four dots on Annabelle. Students need continuous practice with this skill to help them understand how many more to add. If the students could use the counters to represent at least one or two of the given numbers and still need practice with adding counters, they would score a B (Beginning). If the students could use counters to represent at least three numbers and could complete the adding task with guidance and support, they would score a P (Progressing). Lastly, if the students could represent all the given numbers with counters and add counters to the given amount, they would score an M (Mastered).

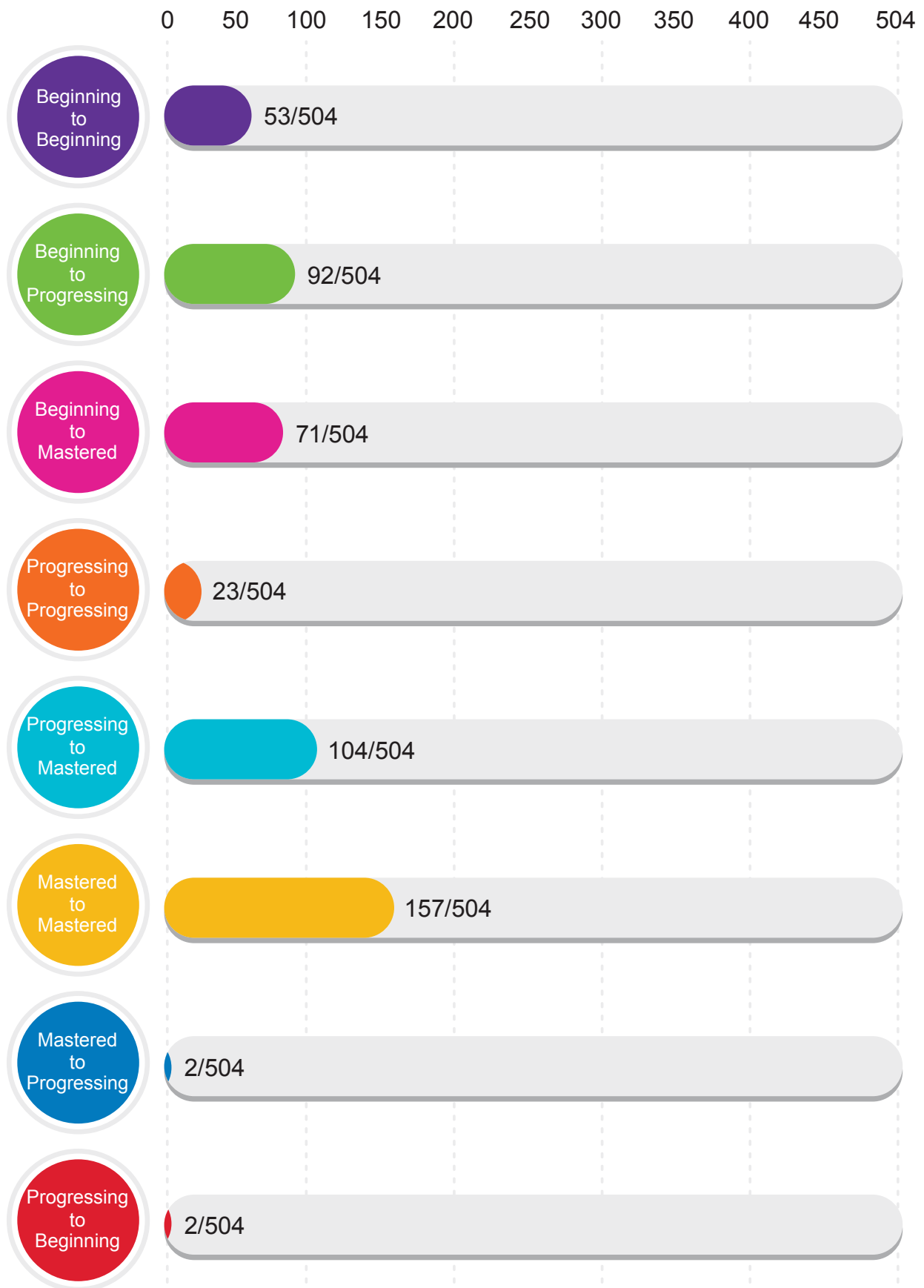
For each of the assessments, students could score in one of eight ways:

- Beginning to Beginning
- Beginning to Progressing
- Beginning to Mastered
- Progressing to Progressing
- Progressing to Mastered
- Mastered to Mastered
- Mastered to Progressing
- Progressing to Beginning

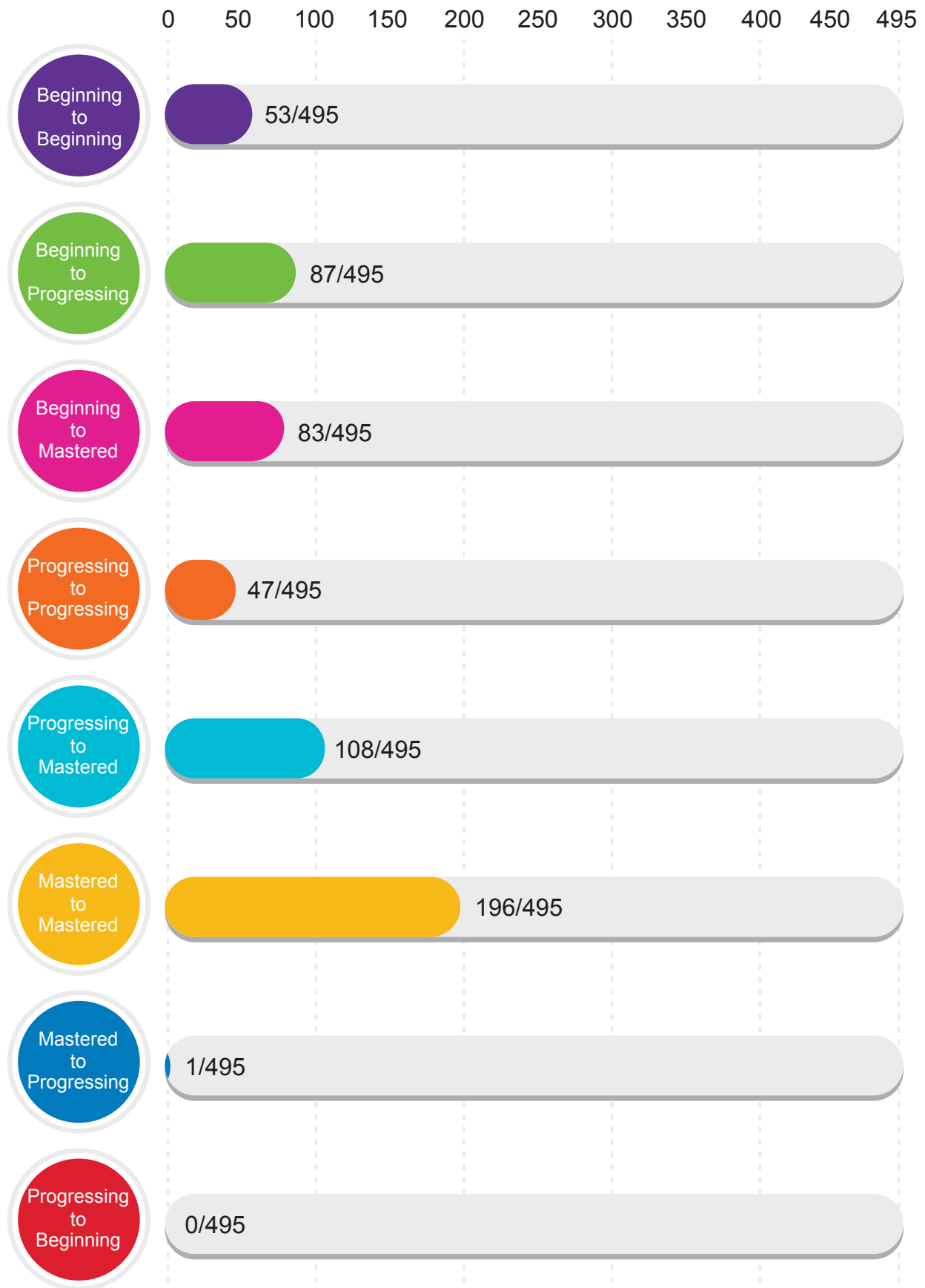
In all, 504 assessments were scored in the ordering assessment, 495 assessments were scored in the retelling assessment, and 486 assessments were scored in the counting assessment.



# Ordering Results of Pilot Study

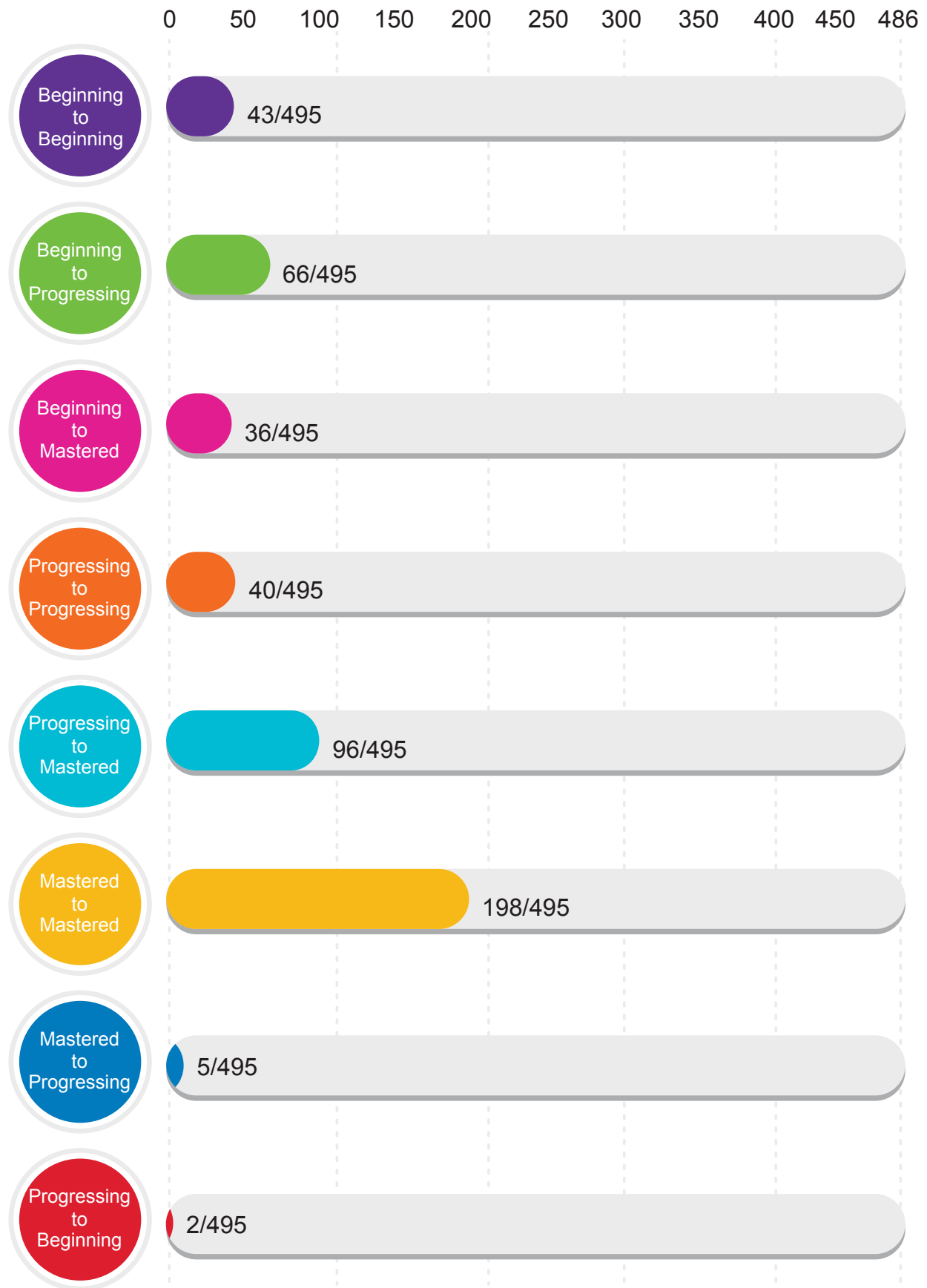


# Retelling Results of Pilot Study





## Counting Results of Pilot Study



## Statistical Analysis

Once the analysis of each assessment was determined, the external evaluator reached out and secured Dr. Yan Gong, professor of mathematics at Limestone University, to conduct a statistical test on the results.

In statistics, McNemar's test is a statistical test used on paired nominal data. The McNemar test is used to determine if the proportions of categories in two related groups significantly differ from each other. In each of the three assessments administered in the Annabelle pilot study, it was concluded that there was a significant difference after the treatment, which was defined as the lessons conducted with the accompanying Annabelle spring book.

### **Part 1 : McNemar-Bowker Test**

Basic Concepts: Given  $n$  subjects, each of whom is given two treatments where the result of each treatment is assigned one of  $k$  categories (including the case where there is only one treatment but each subject is in one of  $k$  categories prior to treatment and one of the same categories after the treatment). This situation can be represented as a  $k \times k$  contingency table with entries  $n_{ij}$ , which sum up to  $n$ , where  $n_{ij}$  = the number of subjects that are in category  $i$  after treatment 1 and category  $j$  after treatment 2 (or category  $i$  prior to treatment and category  $j$  after treatment).

The null hypothesis is that  $n_{ij} = n_{ji}$  for all  $i, j$  (or equivalently that  $p_{ij} = p_{ji}$  for all  $i, j$  where  $p_{ij} = n_{ij}/n$ ). This is equivalent to saying that the matrix that consists of the contingency table is symmetric.

If the null hypothesis is true, then the McNemar-Bowker statistic follows a chi-square distribution, as follows:

$$B = \sum_{i < j} \frac{(n_{ij} - n_{ji})^2}{n_{ij} + n_{ji}} \sim \chi^2 \left( \frac{k(k-1)}{2} \right)$$

This is known as the McNemar-Bowker Test. It is an extension of McNemar's Test described in McNemar's Test.

### **Part 2: Test result for Ordering**

Sample size = 504

Test statistics = 255.32

Degrees of Freedom = 3

P-Value = 4.62e-55

Level of Significance ( $\alpha$ ) = 0.05



Since  $P\text{-Value} = \text{CHISQ.DIST.RT}(255.32,3) < 0.05 = \alpha$ , we conclude there is a significant difference after treatment (Lectures/Books).

### **Part 3 : Test result for Retelling**

Sample size = 495

Test statistics = 275.0367

Degrees of Freedom = 3

P-Value = 2.51e-59

*Level of Significance ( $\alpha$ ) = 0.05*

Since  $P\text{-Value} = \text{CHISQ.DIST.RT}(275.0367,3) < 0.05 = \alpha$ , we conclude there is a significant difference after treatment (Lectures/Books).

### **Part 4 : Test result for Count ng**

Sample size = 486

Test statistics = 178.2254

Degrees of Freedom = 3

P-Value = 2.13e-38




*Level of Significance ( $\alpha$ ) = 0.05*

Since  $P\text{-Value} = \text{CHISQ.DIST.RT}(178.2254,3) < 0.05 = \alpha$ , we conclude there is a significant difference after treatment (Lectures/Books).






# Ordering Assessment

I can order objects from shortest to tallest.

<p>B (Beginning)</p> 	<p>P (Progressing)</p> 	<p>M (Mastered)</p> 
<p>I am beginning to understand how to order objects by height.</p> <p>I can put at least two animals in the correct order.</p>	<p>I can put at least three or four animals in the correct order.</p>	<p>I can put all the animals in the correct order.</p>

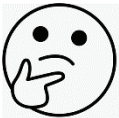


# Retelling Assessment

I can recall events to retell a story.

<p>B (Beginning)</p> 	<p>P (Progressing)</p> 	<p>M (Mastered)</p> 
<p>I can recall at least one or two events from the story.</p>	<p>I can recall at least three or four events from the story.</p>	<p>I can recall at least five events from the story.</p>

# Counting Assessment

I can use counters to represent a quantity.

<div>B (Beginning)</div> <div></div>	<div>P (Progressing)</div> <div></div>	<div>M (Mastered)</div> <div></div>
<div>I can use counters to represent at least one or two of the given numbers.</div> <div>I still need practice with adding counters to a given amount.</div>	<div>I can use counters to represent at least three numbers.</div> <div>I can add counters to a given amount with guidance and support.</div>	<div>I can add the correct amount of counters to represent each number.</div> <div>I can add counters to a given amount to represent a quantity.</div>



## VIII. Next Steps

All four Annabelle books will be distributed to 5K and first-grade students enrolled in summer reading programs in districts that participated in the pilot.

Once all feedback has been incorporated, CoGlo Amigos LLC will apply for a grant to roll out the program statewide into public and private classrooms across South Carolina. This opportunity will include a pre- and post-assessment, 10 lessons aligned to South Carolina Early Learning Standards for each of the four books in the series (one set for each nine-week academic period), parent activities, and the four-book series provided to both the teacher and all students in every selected classroom.

Our goal is to make learning fun and engaging. Early childhood learning is key to a student's long-term success, and the Annabelle series with accompanying content and assessments is a solution to get children ready and prepared for kindergarten.

Annabelle and the CoGlo Amigos offer a complete package of standards-aligned lessons and assessments for each nine weeks for teachers to use that can be adapted, expanded, and enhanced in every state to meet the needs of your children.

