



Utilization of Innovative Evaluation Tools During In-School Club Meetings



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Abstract

Evaluations are an important part of program development. However, evaluations can be difficult and take a lot of pre-planning as evaluations must be something we use through a program. During the 2019-2020 school year, Worth County 4-H used Plickers, as a tool which collects multiple choice answers from students, to collect knowledge based evaluations of club meetings. Knowing the importance of creating quality and impactful programming for school systems, Worth County 4-H was looking for a way to collect data on programming based on the local issue of agriculture literacy. They were already implementing club meetings on peanut and cotton, the question was how to collect data. Worth County 4-H decided that short 5 question multiple choice quizzes serving as a pre and post-test would work well to collect knowledge based evaluations. Plickers were determined to be an efficient way to collect this data because all that was needed was a smart phone and a printed class set of the Plickers cards. Before the peanut lesson, 60% of 5th grade students answered questions correctly. 53% of 5th grade students answered cotton questions correctly. After both lessons, 72% of students answered questions correctly. The objective of using Plickers to evaluate club meetings is to provide useful data for program development and impact statements.

Response

The quizzes taken during 5th grade club meetings were used to evaluate agricultural knowledge. Plickers compiles the data for each class and it can be used to determine the impact of the agricultural focused 5th grade lessons. Before the peanut lesson, 60% of 5th grade students answered questions correctly. 53% of 5th grade students answered cotton questions correctly. After both lessons, 72% of students answered questions correctly. This shows a positive impact of the lessons. Based on the results of the quizzes, students gained knowledge about peanuts and cotton from the lessons they received during 4-H in-school club meetings.

Situation

- Difficult to evaluate in-school club meetings
 - 45 minutes to teach and collect data
 - Average of 25 students per class
- Use of Smart Board to display questions
- Use Plickers to collect quiz results
- Fun alternative to hand written quiz
 - Students hold up Plickers Cards with their answer, scan the room
 - Students can't see others answers

Materials

- Smart Phone with Plickers App
- Free account at www.plickers.com
- Printed Plickers Card – Class Set
- Multiple Choice quiz questions (Pre & Post-Test)

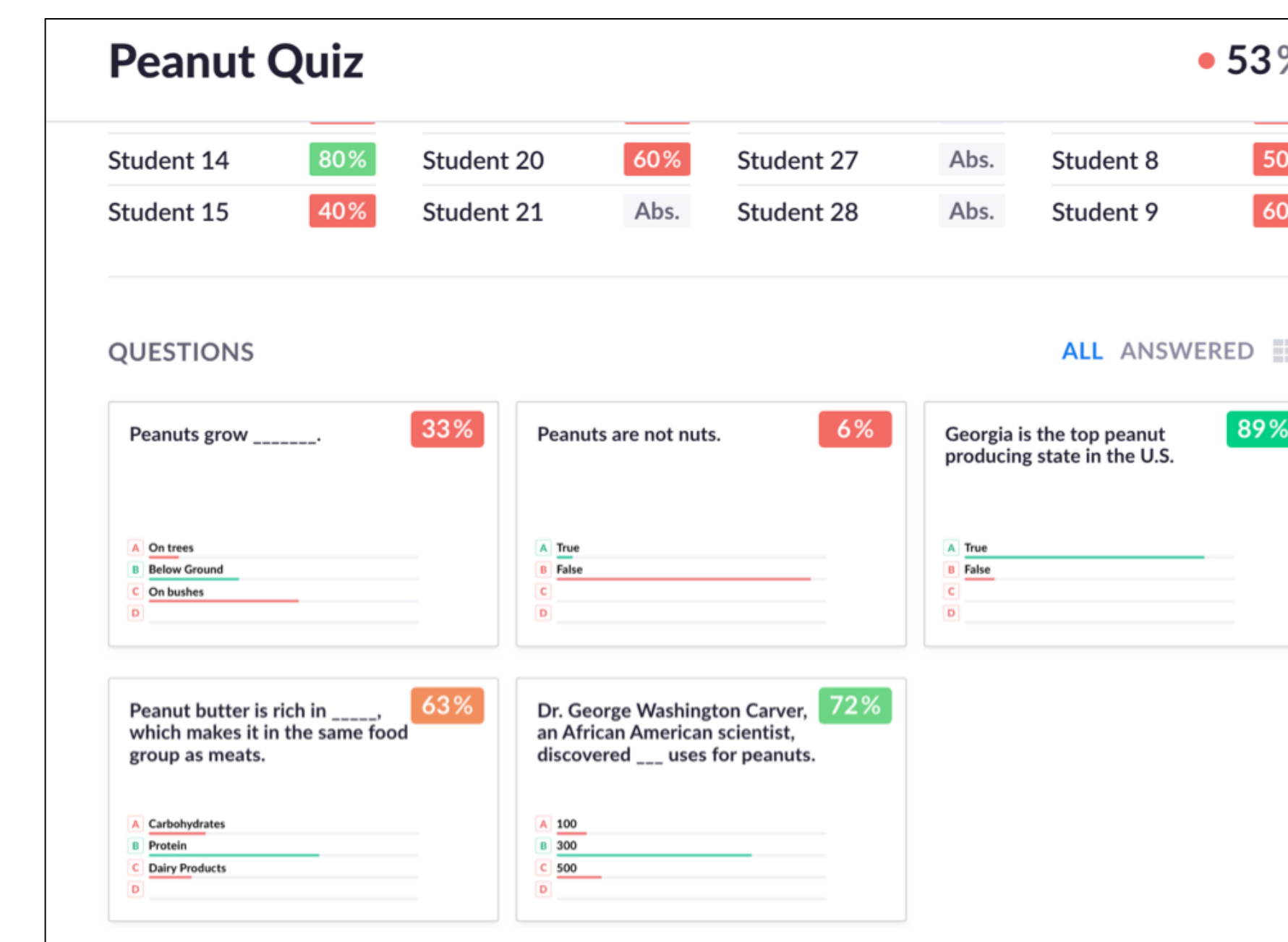


Figure 6: One classes results for pre-quiz on Peanuts

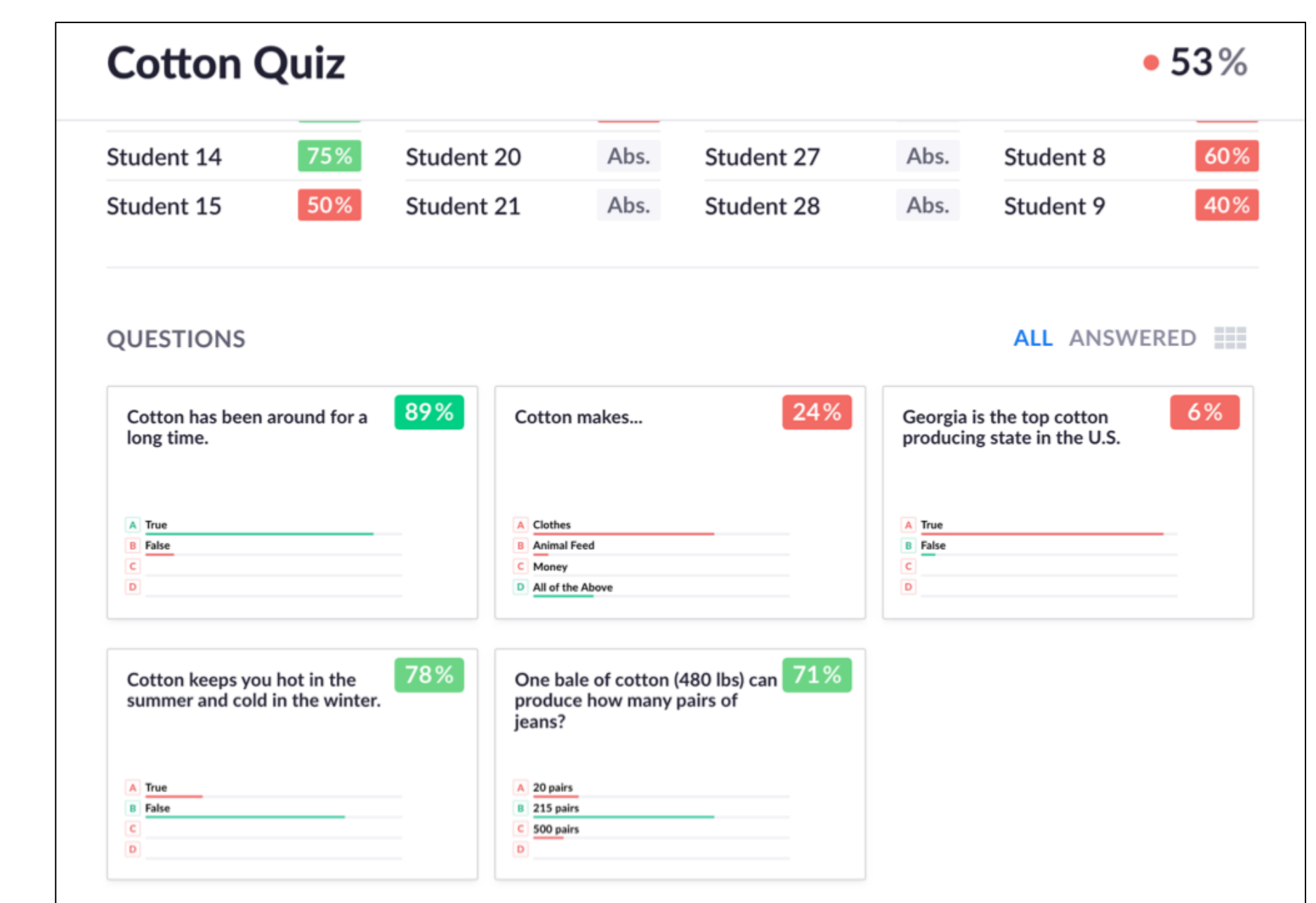


Figure 7: One classes results for pre-quiz on Cotton

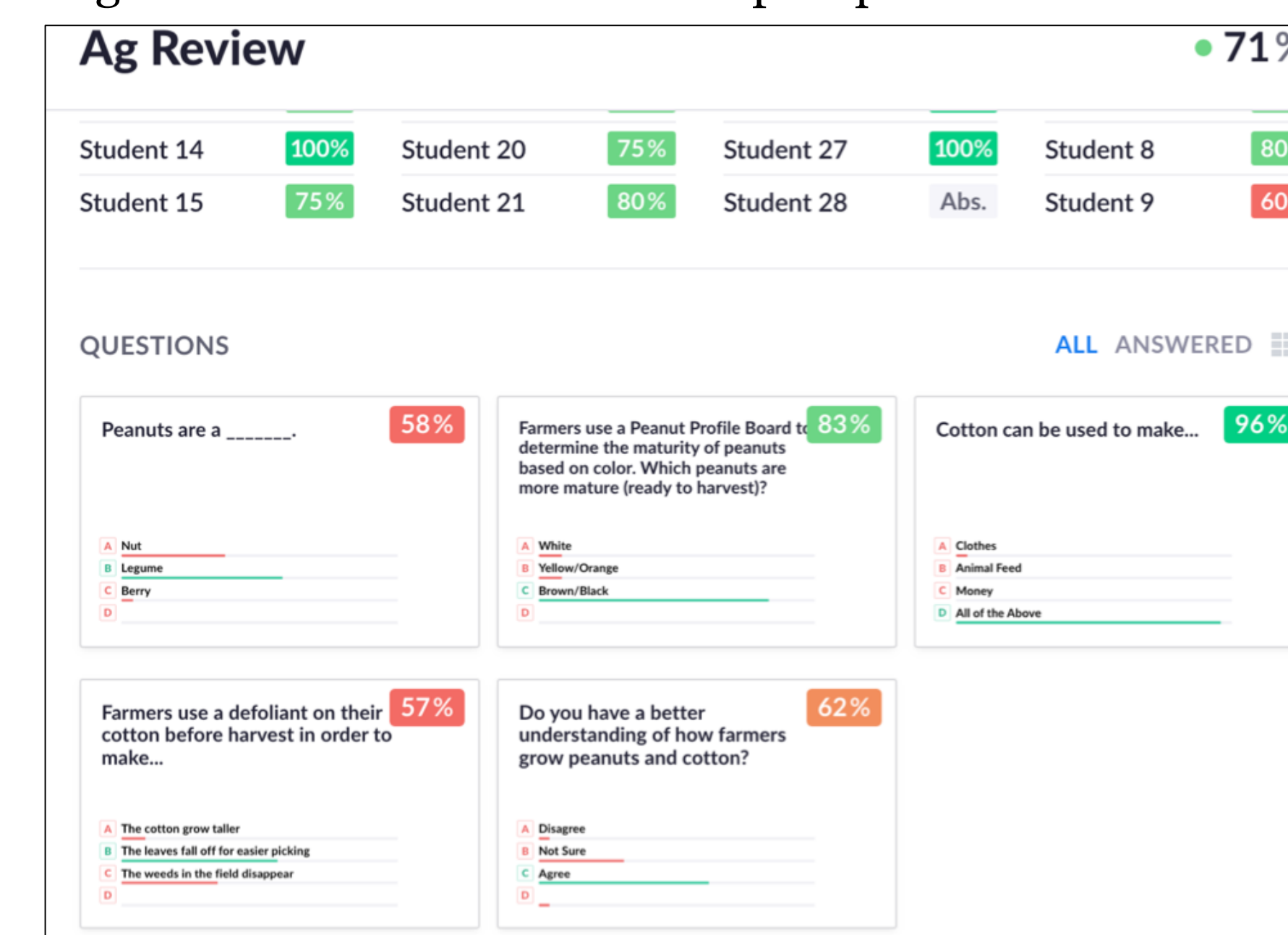


Figure 8: One classes results on quiz after Ag lessons

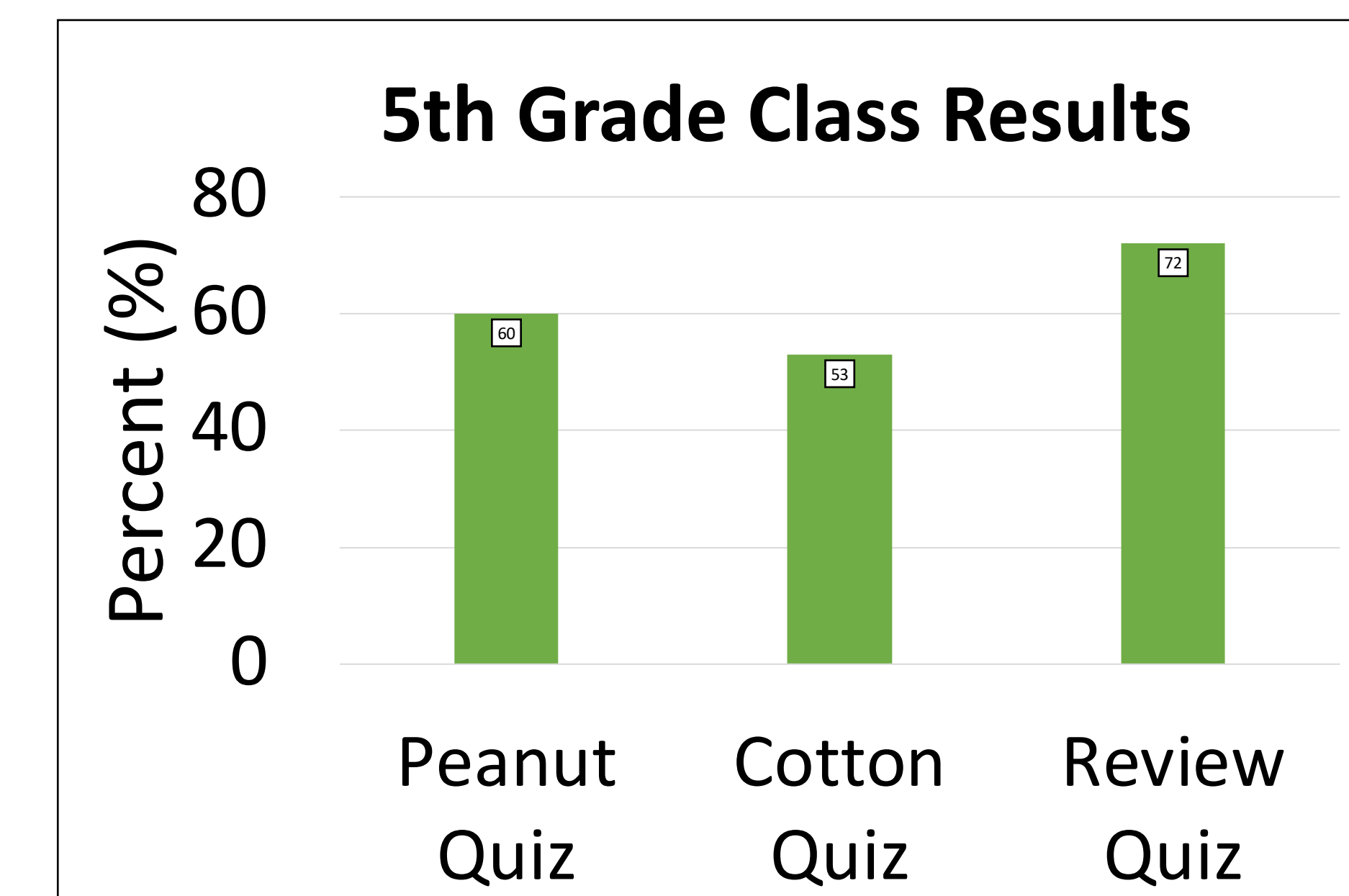


Figure 9: Comparing pre-quiz results to review quiz results for all 12 5th grade classes

Impact

It can be difficult to evaluate club meeting lessons, but with the help of Plickers, an app and printable cards, you can collect data with ease. Worth County 4-H used Plickers to collect quiz results during the 2019-2020 school year. Based on the quiz results, the lessons taught to the 5th grade classes helped them gain knowledge about how farmers grow peanuts and cotton. The results collected from the quizzes can be shared with teachers and administrators of the school to show impact the lessons have on students' knowledge of subjects. Data can also be collected over years in order to track in-school club data. Plickers provide an easy and quick way to collect knowledge based data from students during in-school club meetings.

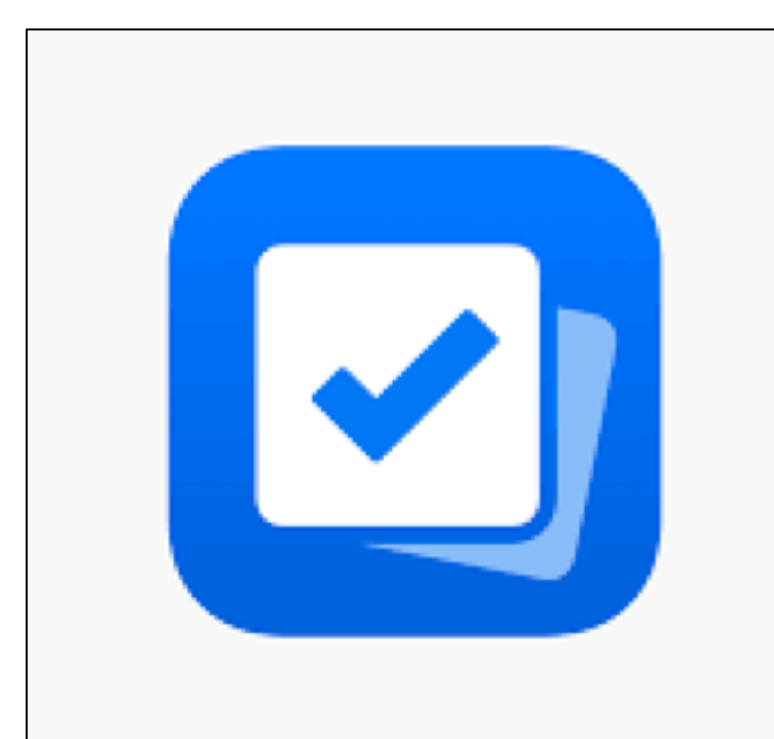


Figure 1: Plickers App

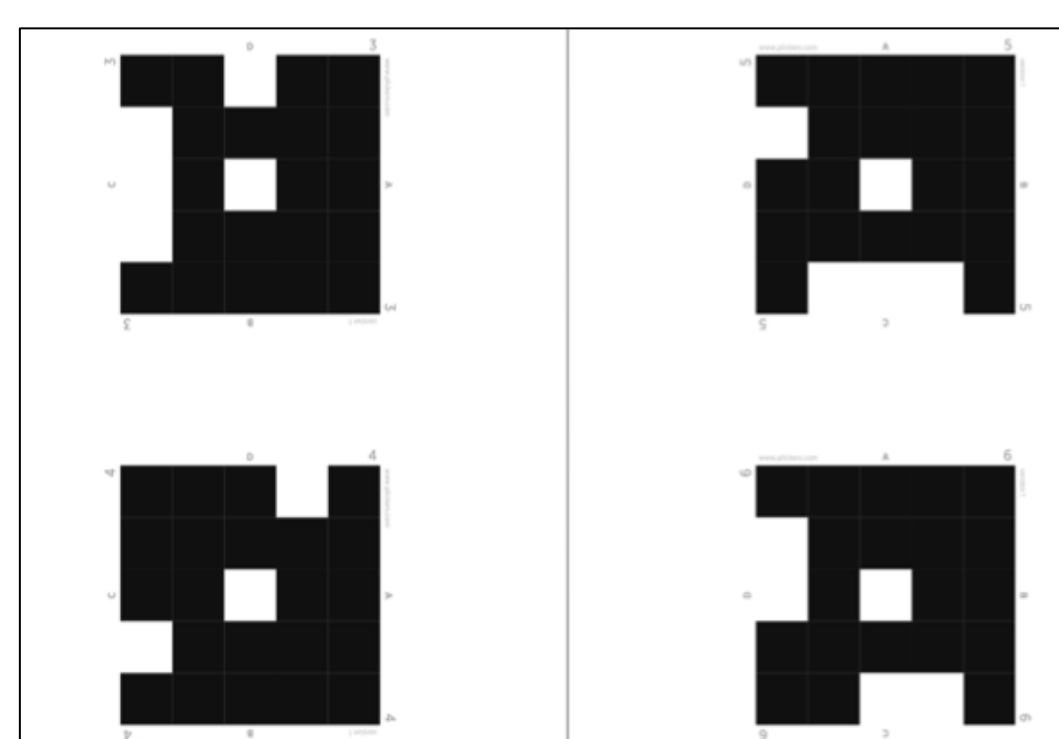


Figure 2: Plickers Cards

