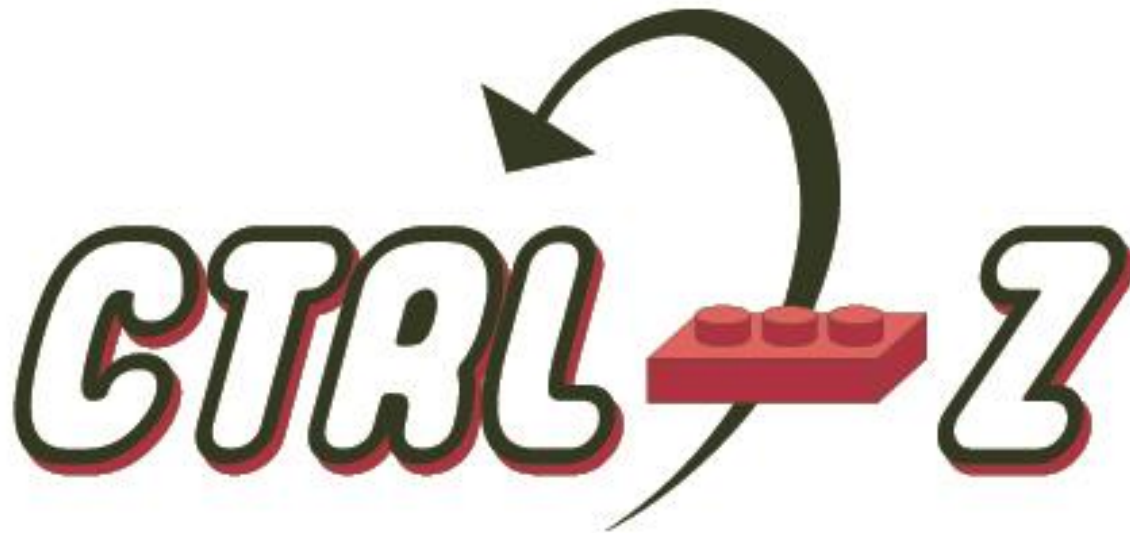
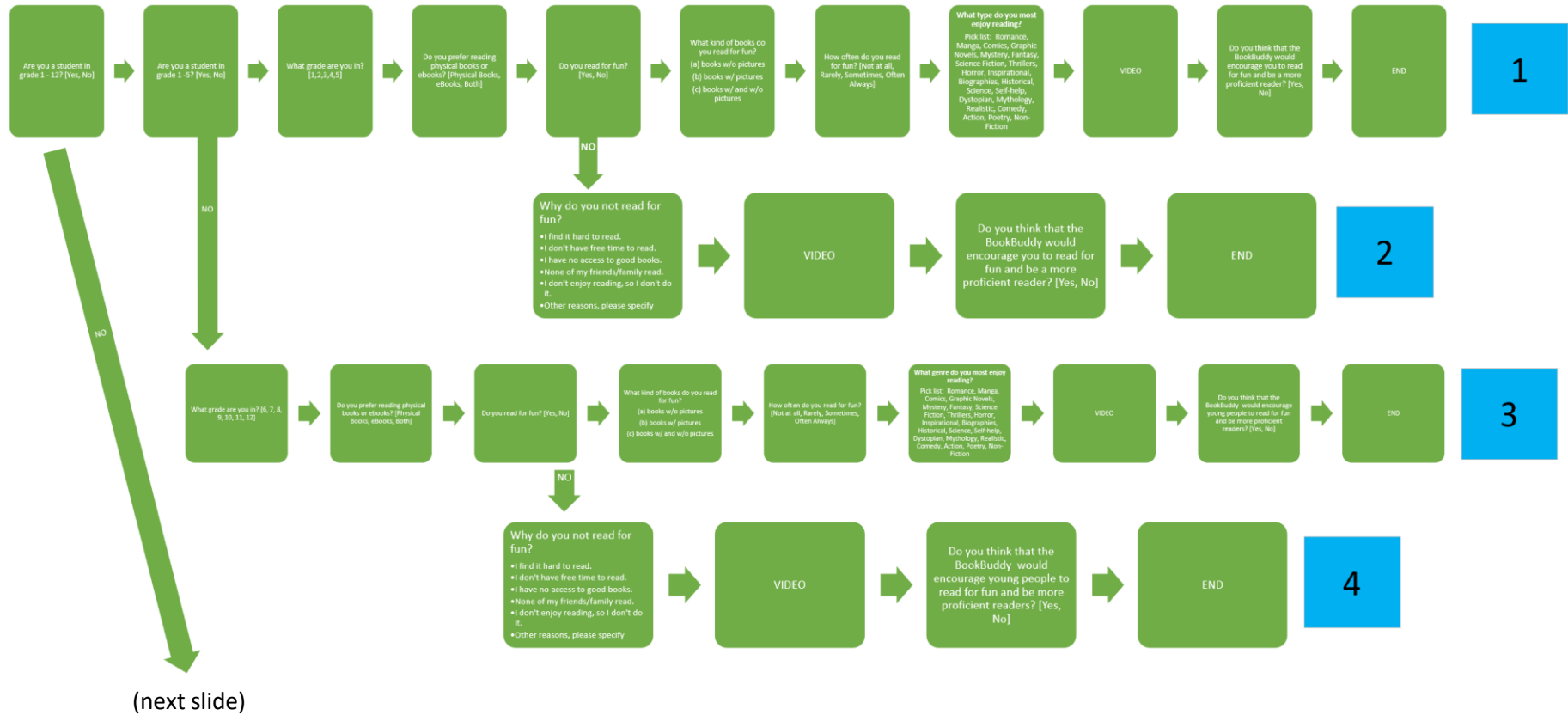


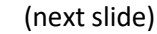
# **Ctrl-Z 2023-2024 FLL MASTERPIECE (196 Responses)**



# Survey Flowchart – Student Portion

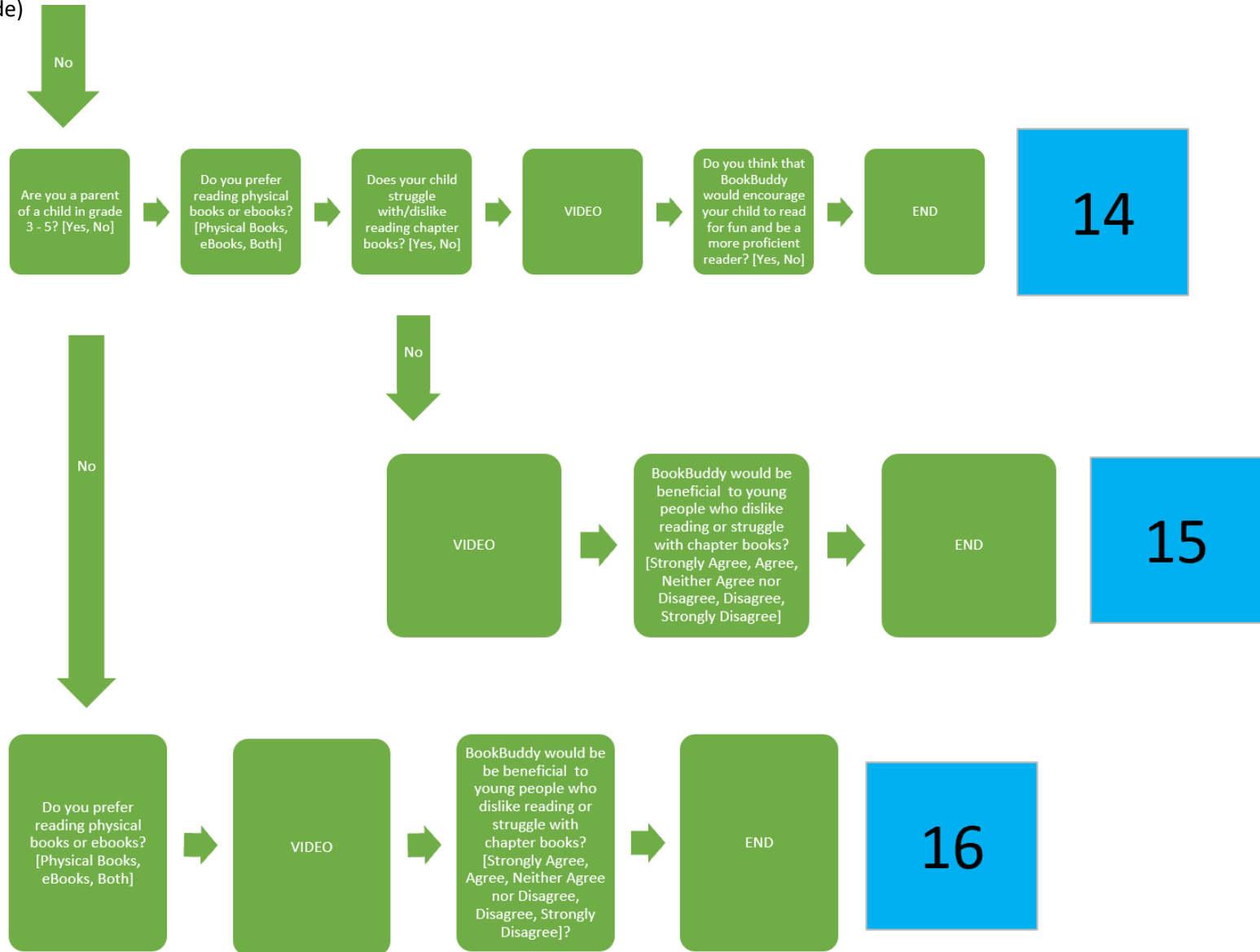


(previous slide)



# Survey Flowchart – Parent / Other Portion

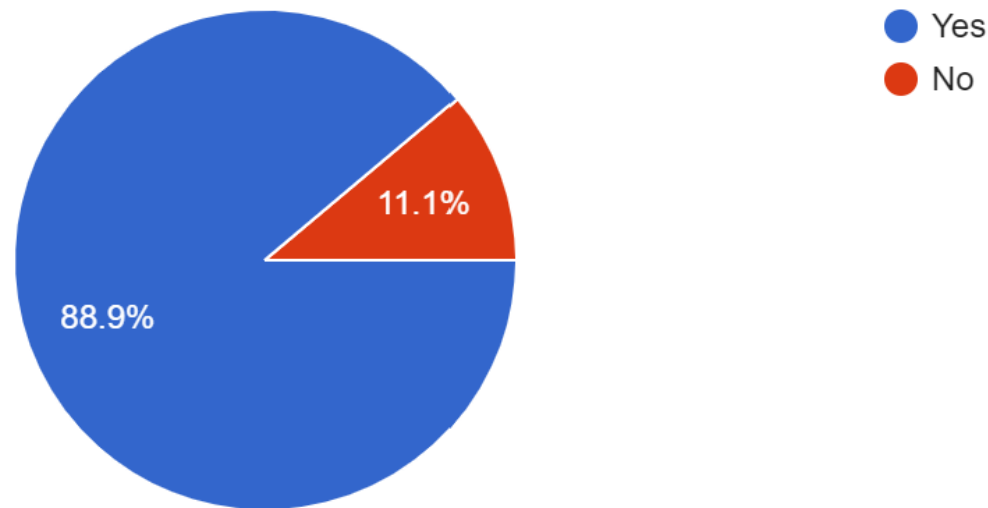
(previous slide)



# Almost 90% of students in grades 1-5 think the BookBuddy can make them better readers

Do you think that the BookBuddy would encourage you to read for fun and be a more proficient reader?

36 responses

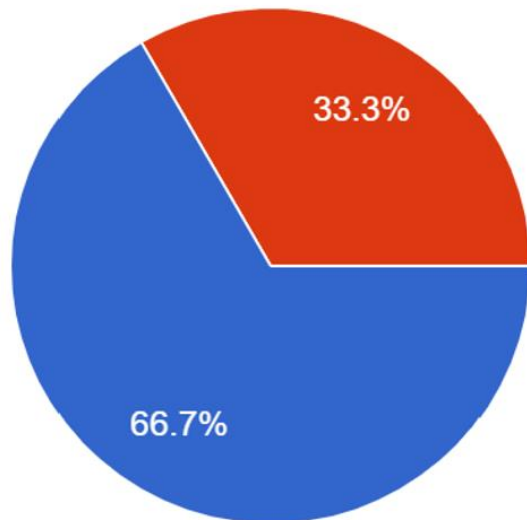


*“This is a great innovation that will be helpful to many students and should further promote love for reading.” -Respondent*

# 100% of educators think the BookBuddy's illustrations would improve students' reading comprehension

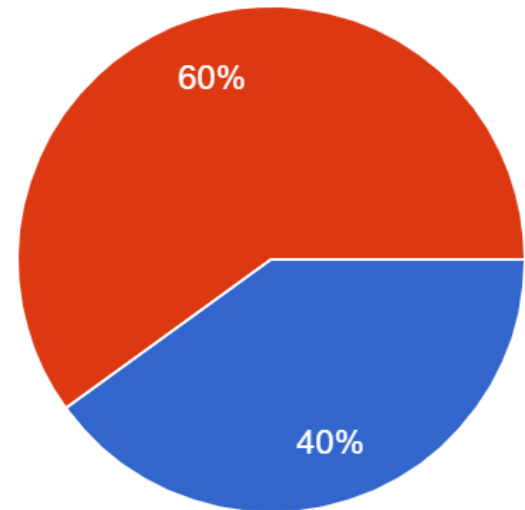
BookBuddy's AI-generated image would potentially improve a student's reading comprehension

**Teachers**



9 responses

**Administrative Leaders**



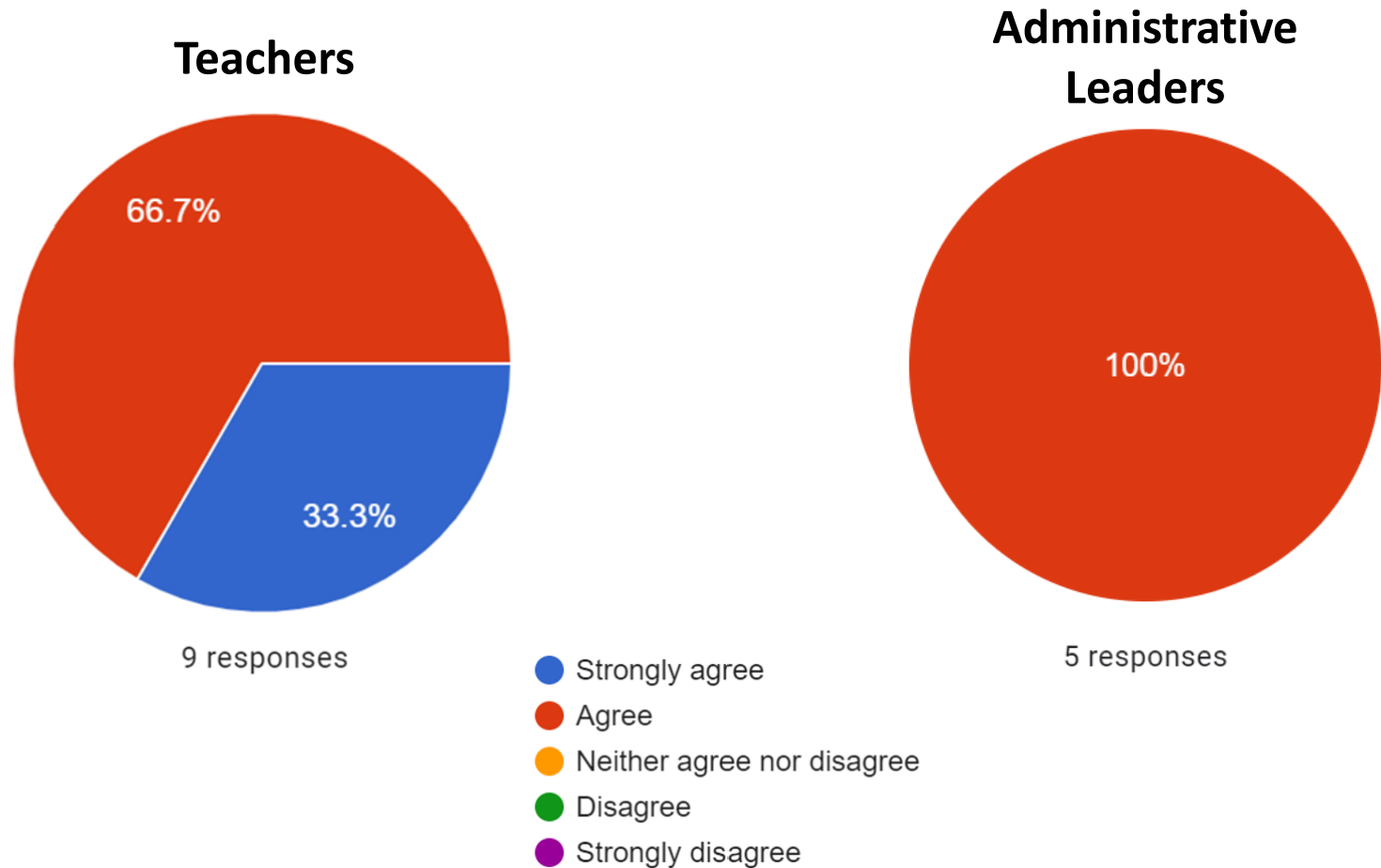
5 responses

- Strongly agree
- Agree
- Neither agree nor disagree
- Disagree
- Strongly disagree

*"Visuals are critical for students' learning."*  
-Respondent

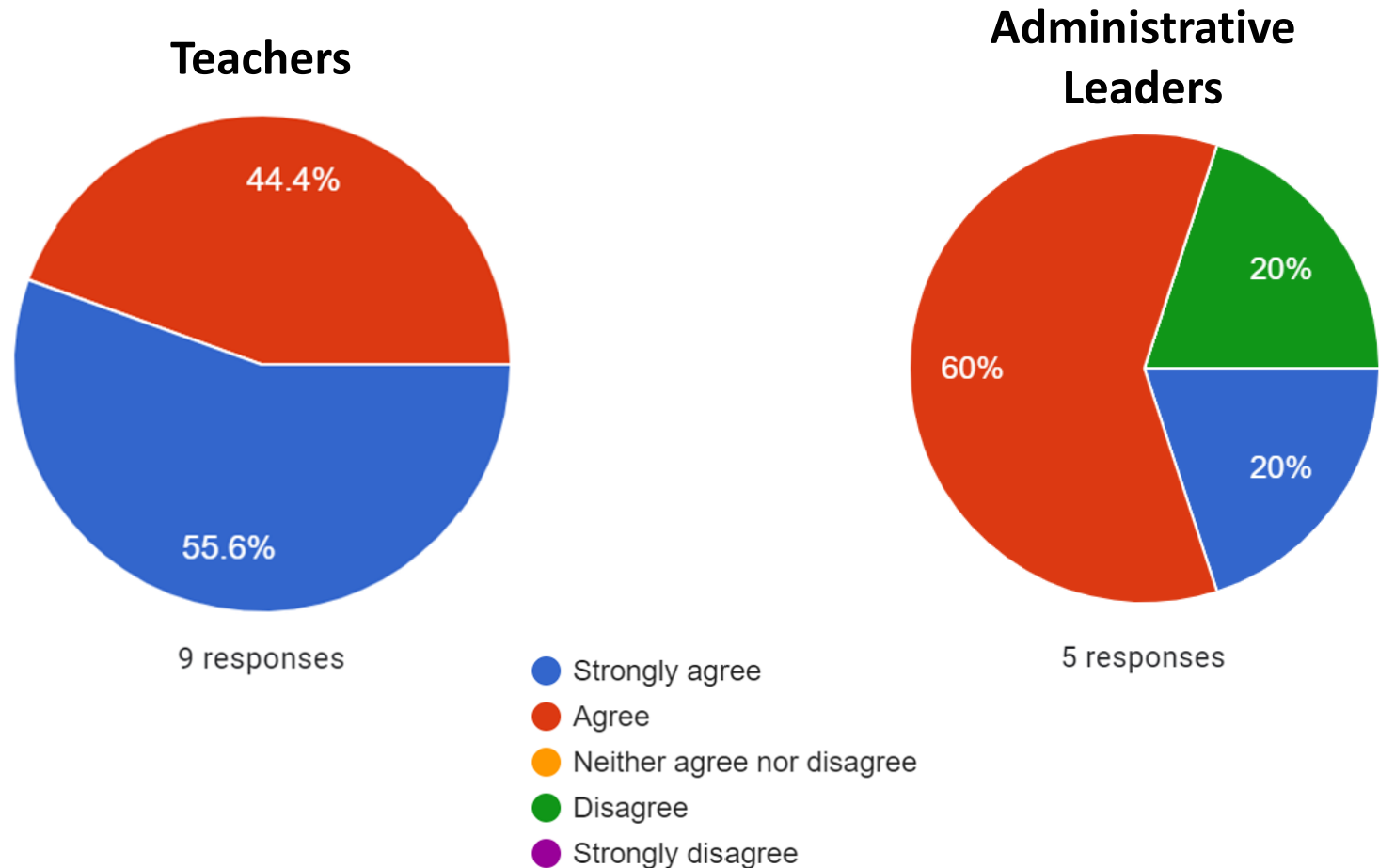
# 100% of educators think the BookBuddy's multiple choice questions would improve students' reading comprehension

BookBuddy's AI-generated multiple choice questions would potentially improve a student's reading comprehension.



# 100% of educators think the BookBuddy's text-to-speech feature would improve students' reading comprehension

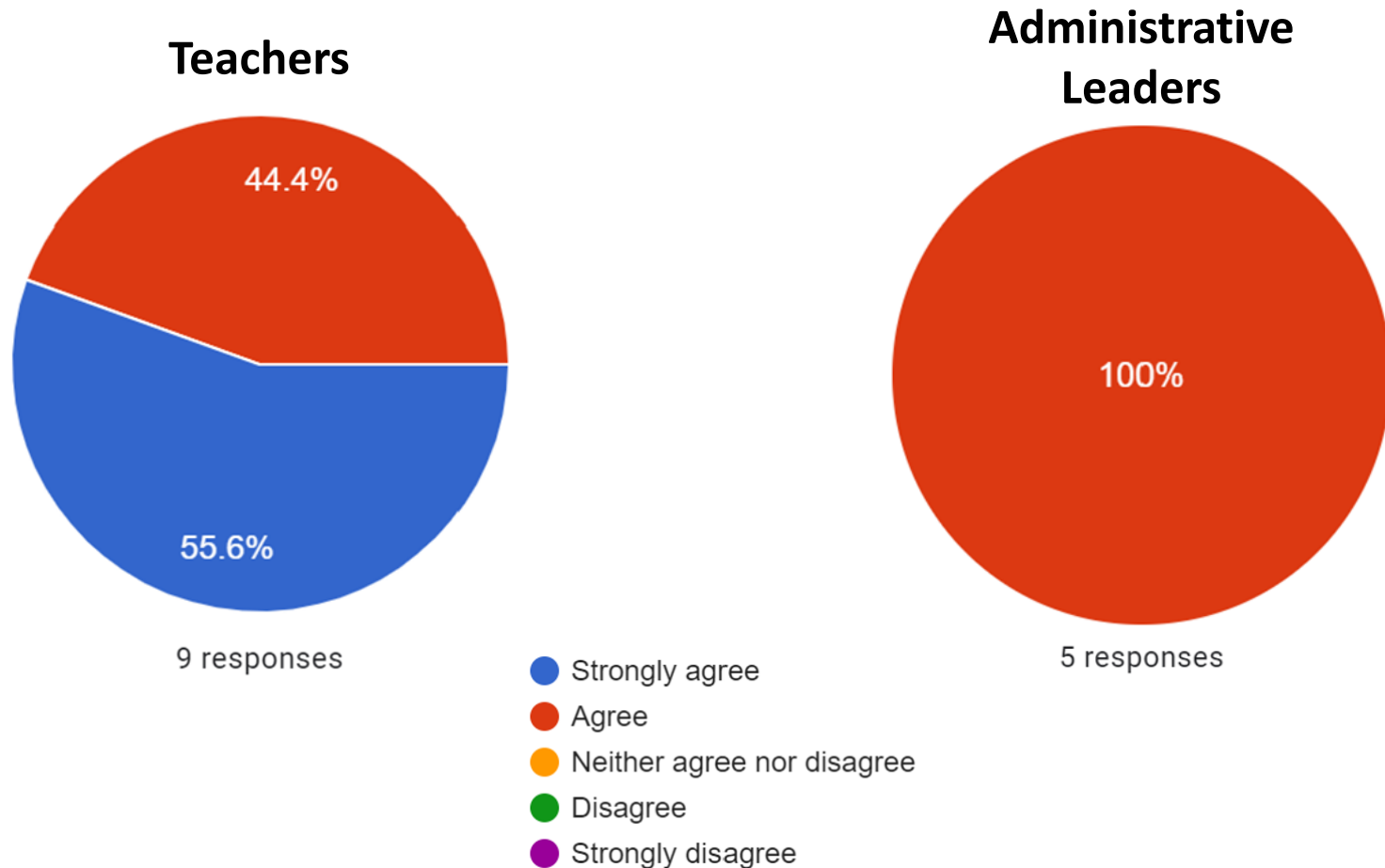
BookBuddy's "text-to-speech" feature would potentially improve a student's reading comprehension.





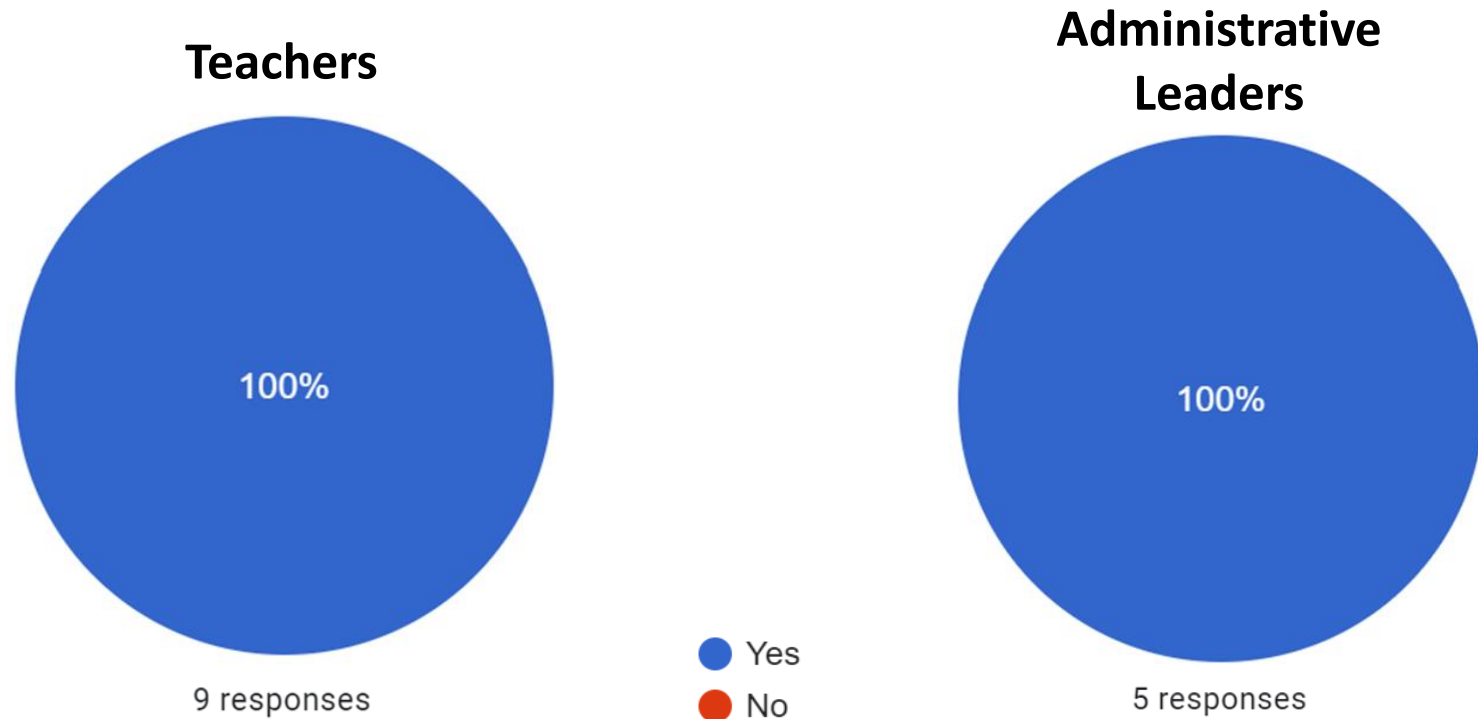
# 100% of educators think the BookBuddy's word definitions would improve students' reading comprehension

BookBuddy's word definitions would potentially improve a student's reading comprehension.



# 100% of educators think the BookBuddy will help students maintain interest in reading

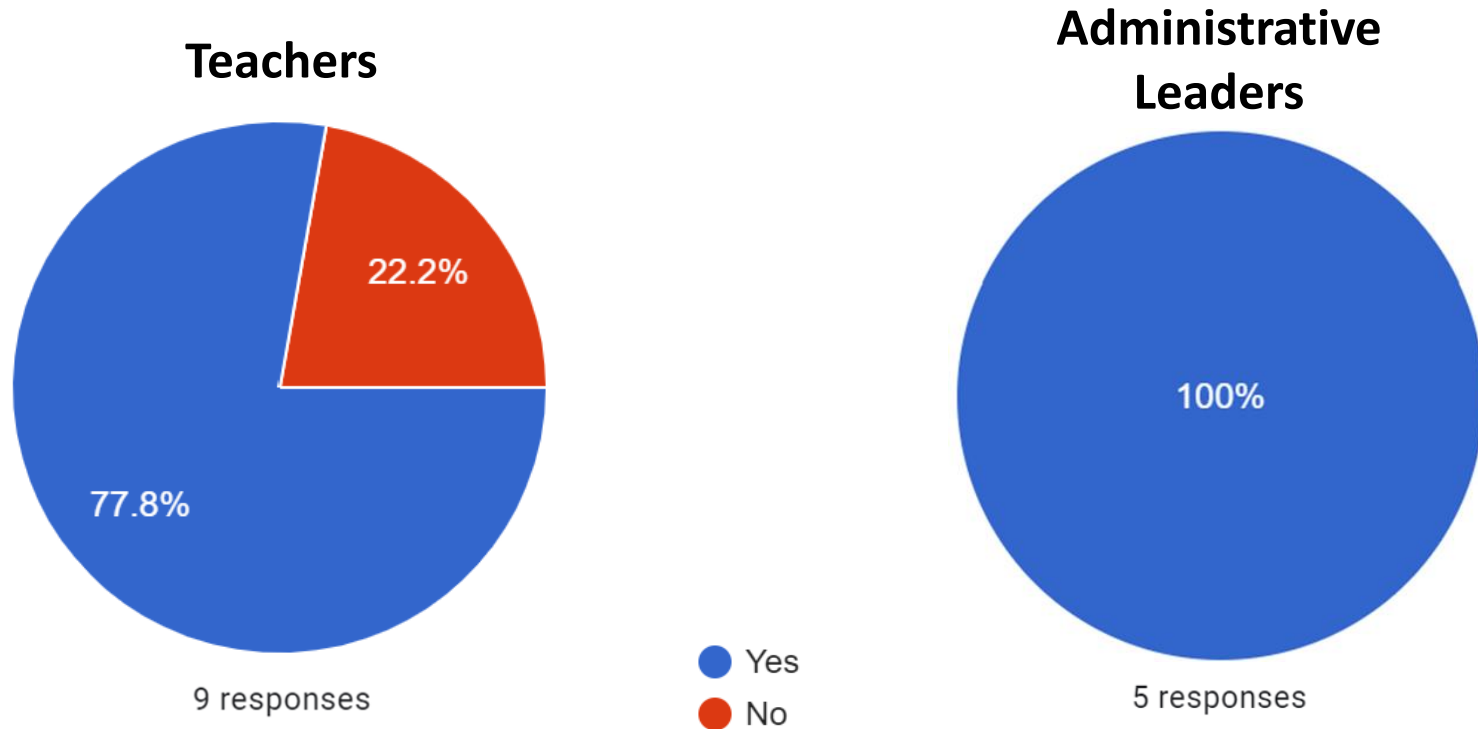
Do you think the BookBuddy will help students maintain interest in reading?



*"It is a great tool to encourage the love of reading and increase comprehension." -Respondent*

# Substantially all educators would consider buying the BookBuddy

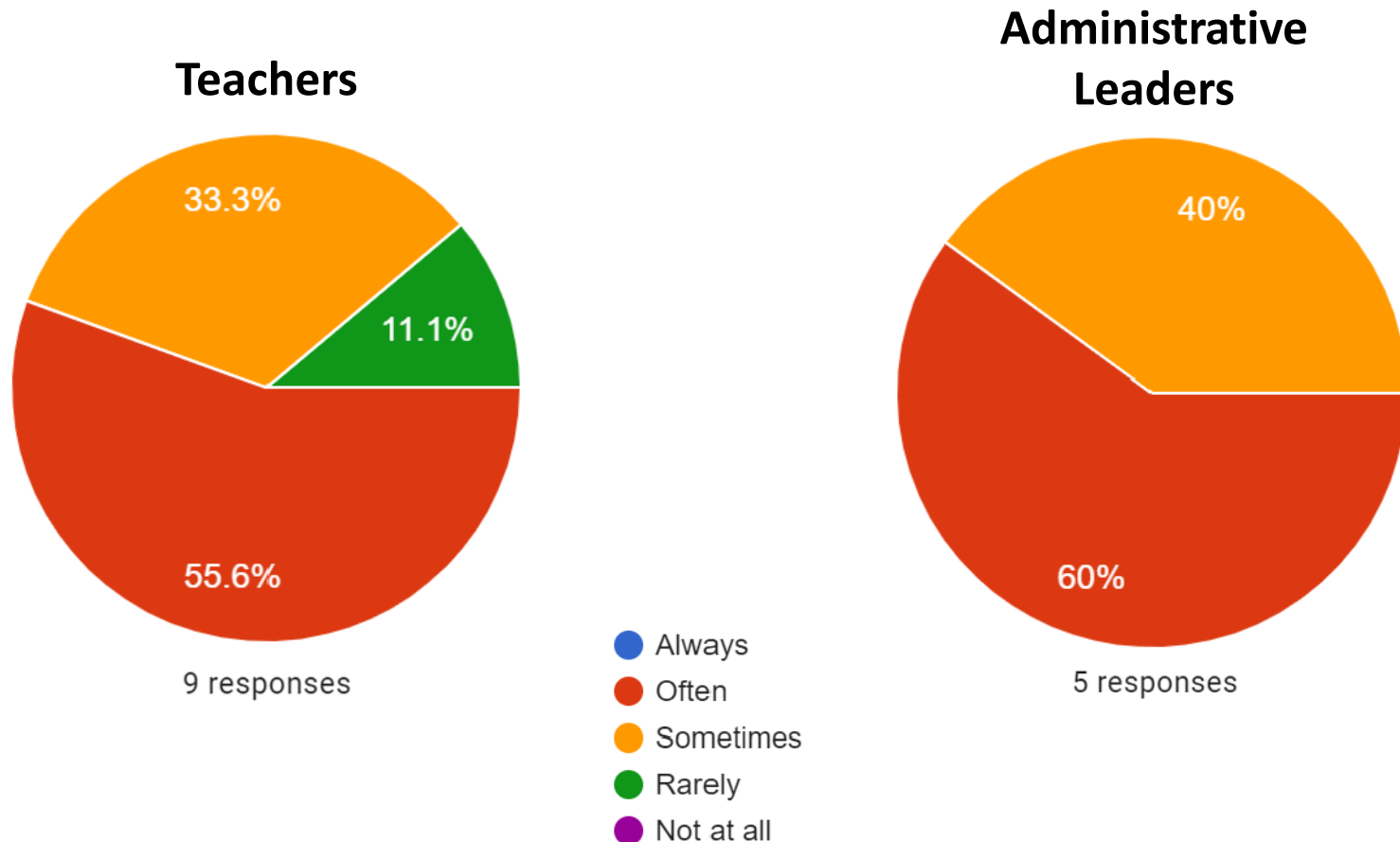
Would you consider buying the BookBuddy for your classroom?



*"Great idea! I would want this for my ESL and special education students, where visuals are critical for students' learning." -Respondent*

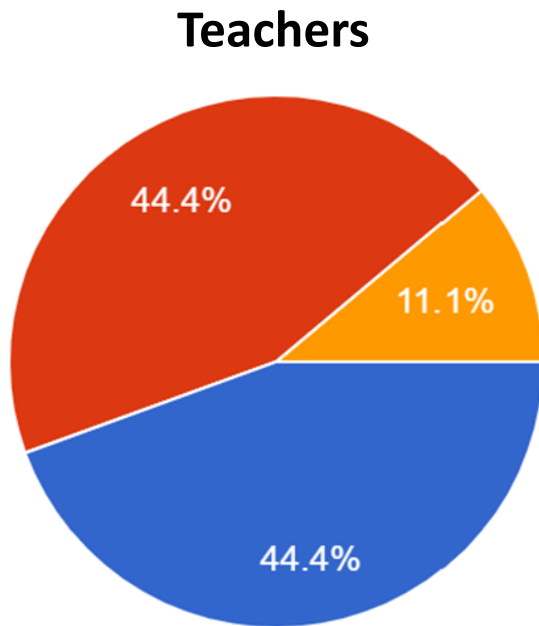
# An overwhelming majority of educators surveyed would make regular use of the BookBuddy

How often would you / your staff use the BookBuddy?



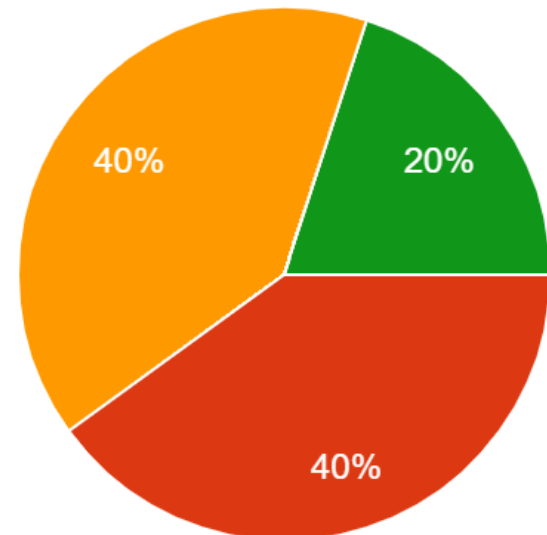
# Educators believe a significant portion of students can benefit from the BookBuddy

What percentage of grade 3 - 5 students would benefit from the BookBuddy?

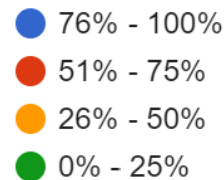


9 responses

### Administrative Leaders



5 responses

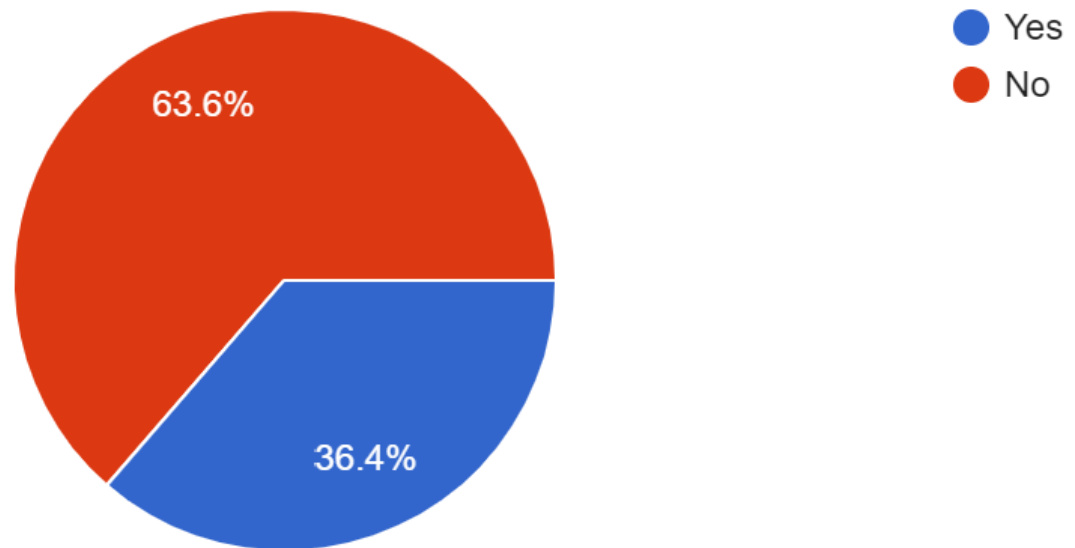


*"This is an amazing concept and design! I truly believe that this can help so many young readers find their passion for books."* -Respondent

## Over a third of parents say their child struggles with / dislikes reading chapter books

Does your child struggle with/dislike reading chapter books?

11 responses

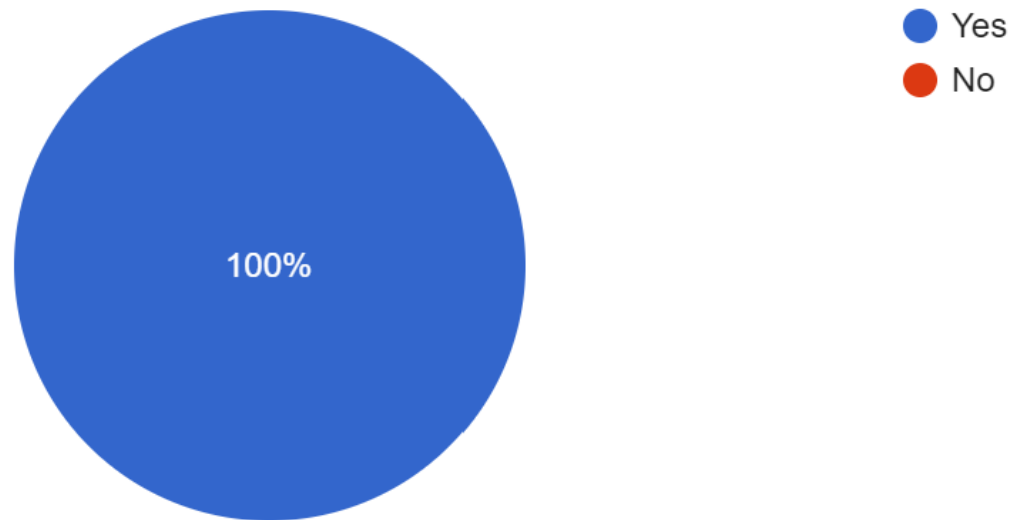


*"I believe the Bookbuddy will be a resource used by many parents and kids who struggle." -Respondent*

## 100% of parents believe the BookBuddy would help their child become a better reader

Do you think that the BookBuddy would encourage your child to read for fun and be a more proficient reader?

4 responses

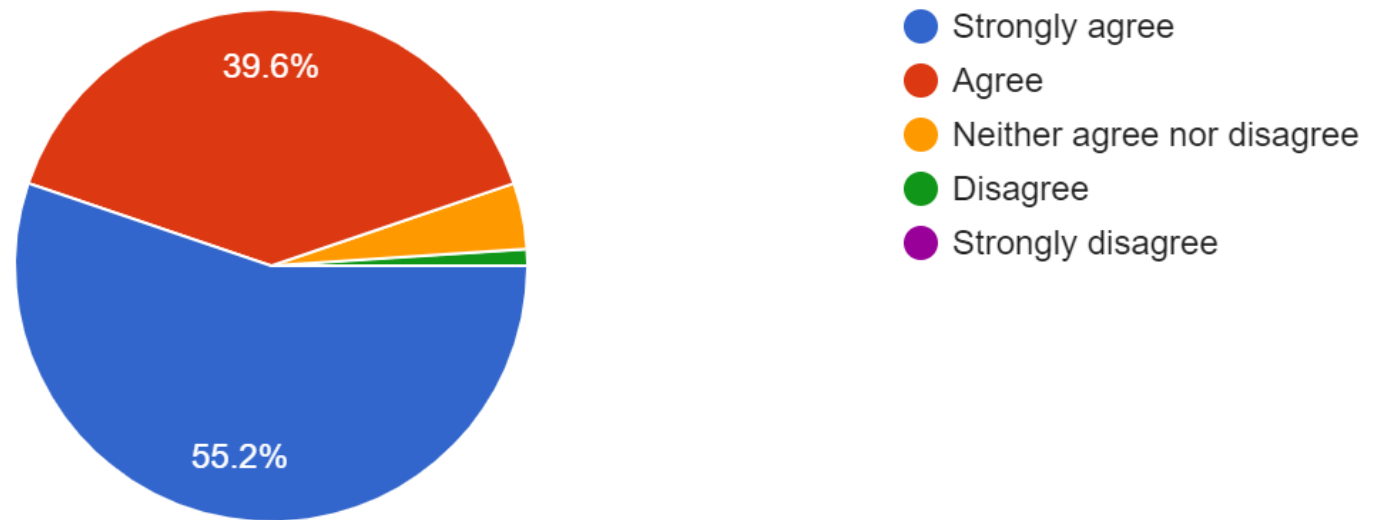


*"Great idea! This would really help young readers transition to chapter books." -Respondent*

# Almost all respondents believe the BookBuddy would help children become better readers

The BookBuddy would be beneficial to young people who dislike reading or struggle with chapter books.

96 responses



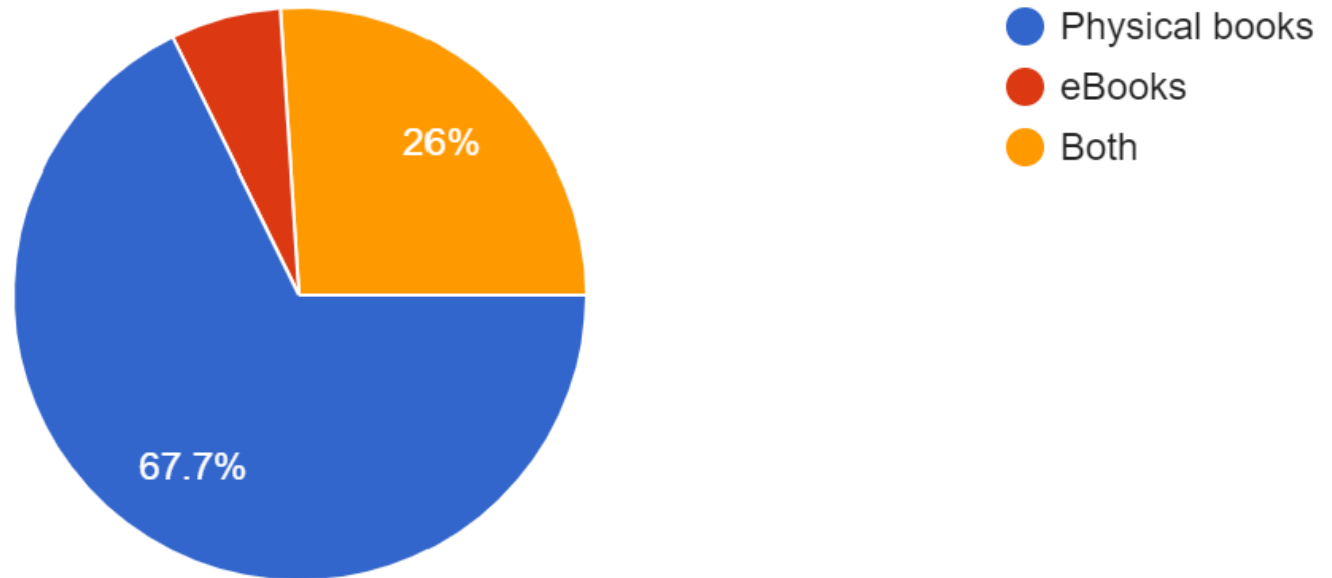
*"This is a great innovation that will be helpful to many students and should further promote love for reading." -Respondent*



## Almost all respondents like reading physical books

Do you prefer reading physical books or eBooks?

96 responses



# Respondents' Survey Comments Summary

1. I believe the Bookbuddy will be a resource used by many parents and kids who struggle. Great work!
2. Cool concept. I wonder if there is an opportunity to partner with book publishers to pre-generate the output format and sell it with the book. i.e. you get the normal text version and the book-buddyfied version together.
3. This is a really great idea my children love reading graphic novels because of the mix of images and text. This invention looks like a great combination of both.
4. This is a great idea! You could think of even adding a translate function to allow readers to capture books in other languages.
5. I think this would be especially useful in Special Education with students, potentially with students who are non-verbal or have poor fine motor skills, inhibiting written responses
6. This is an amazing concept and design! I truly believe that this can help so many young readers find their passion for books. A suggestion I would have is to have accessibility features for people who are visually impaired, have hearing loss, etc...
7. Great idea! I would want this for my ESL and special education students, where visuals are critical for students' learning.
8. Fabulous idea. Where can I get one!!
9. Upon encountering "challenging" new words, provide reader with lower level synonyms of this new word to help text seem less daunting.
10. Have a way to keep a note of the new words and review the words later on.
11. It looks good for kids gr1-4 or for people who love movies and can't find one of their favourite book
12. Maybe add a setting icon about what Grade are you in.

# Respondents' Survey Comments

1. Great idea!
2. I think the BookBuddy is a fantastic idea! Well done CTRL-Z for coming up with such an innovative project!
3. I like the idea for helping kids to love reading.
4. Trademark and patent...I believe the Bookbuddy will be a resource used by many parents and kids who struggle. Great work!
5. Pros:
  1. It's a good idea to arise young people's interests to read with this device.
  2. The operation of the device is simple.
  3. The quality of the reading aloud system is good and clear.
- Cons:

It needs an extra camera or visualizer for scanning the book.
6. I would also recommend the book for secondary schools that have a lot of ESL students as well as students who struggle with literacy and comprehension.
7. Cool concept. I wonder if there is an opportunity to partner with book publishers to pre-generate the output format and sell it with the book. i.e. you get the normal text version and the book-buddyfied version together.
8. This is a really great idea my children love reading graphic novels because of the mix of images and text. This invention looks like a great combination of both.
9. Great idea! This would really help young readers transition to chapter books.
10. I am not so clear about how Book buddy can make young kids love reading.

# Respondents' Survey Comments

11. Very cool and impressive project! I have 2 suggestions which might be interesting for you:

1. The reading position with the book flat on the table may be uncomfortable. If the whole device is able to tilt forwards it may be helpful.
2. An indication on the screen, such as a loading icon, could be helpful to tell the reader that the BookBuddy is scanning the new page. This would help the reader understand if the BookBuddy is "thinking" or if there is an issue.

Great work and good luck with the competition!

12. This is a great idea! You could think of even adding a translate function to allow readers to capture books in other languages.

13. It is a great idea helping children transitioning to non-picture books. It is also helpful by reading to them when they read by themselves.

14. BookBuddy is a great idea for some people. It is helpful because it can read to you and show pictures.

15. Does it work with e-books?

16. The subscription model might want to consider licensing conditions i.e. how many users per subscription vs time-per-day. Models often seen: unlimited user subscription (whole school model), 1 to 30 user pricing; cost-per-user model. These are things to consider. I chose option one but would pay more if there was a whole school license.

# Respondents' Survey Comments

17. In my opinion, the BookBuddy is a resource that can adequately provide help as it tests the reader's comprehension of the text, expands one's vocabulary, and effectively engages the reader through AI generated images and audio features, easing the transition between books primarily filled with pictures to novels with less illustrations by acting as a springboard to success. However, I believe that for this tool to encourage children to read for fun, it would also depend on what kind of person the child is. If the child solely views this as an educational tool, I'd find it hard to imagine them being encouraged to read for fun. On a separate note, the BookBuddy could perhaps be used to help visual learners envision word problems. If they are struggling with a question and would like to visualize it, they could perhaps use the BookBuddy to generate a diagram so that they can more easily make sense of it and reach a conclusion. Of course, it there could be an issue in terms of how much the generated image gives away the answer, how much the user is dependent on this tool in these situations, and if the question can actually be applicable in this scenario, if however, it would be of great use for providing a separate path to solve a problem.
18. I think this would be especially useful in Special Education with students, potentially with students who are non-verbal or have poor fine motor skills , inhibiting written responses
19. I think it is a great idea for younger kids. The only draw back is there is a lack of collaboration that you would get if the kid is in a virtual or in person book club where they get to discuss different viewpoints of the contents of the story.
20. Great idea to help facilitate literacy in the Digital Age and preserve important life skills of humankind.
21. Think it's a great idea!
22. This looks great! Would be a helpful addition to students working with an educational assistant
23. Great job
24. Amazing!
25. This is a great innovation that will be helpful to many students and should further promote love for reading.

# Respondents' Survey Comments

26. This is an amazing concept and design! I truly believe that this can help so many young readers find their passion for books. A suggestion I would have is to have accessibility features for people who are visually impaired, have hearing loss, etc...
27. A great idea and a great product overall. Keep up the good work!!
28. Excellent idea to increase the literacy among young children
29. Wow! Congratulations on this innovation project! Very well thought and executed
30. Great idea! I would want this for my ESL and special education students, where visuals are critical for students' learning. As an FYI, listening to reading (text to speech) would not be graded as a student's ability to read independently, rather it would be a listening comprehension activity. Best of luck with your entrepreneurial venture!
31. I like the idea; however, I feel [1] there are too many distractions reading books this way. While reading improves one's literacy skills, it also develops the ability to concentrate. Over time, the improved ability of one's literacy skills and concentration will allow kids to read more difficult books. One way to mitigate this is to design different modes of reading depending the goal and the reader's reading skills. For example, there can be a silent mode where only the illustration is shown without other functionality. [2] When reading a physical book, it is very unlike that one read the book with the book placed underneath a camera.
32. I love this! Please make the text larger on the computer, the strain on kids' eyes will be reduced.
33. Fabulous idea. Where can I get one!!
34. A button that would slow down the pace of the reading for slower learners.

# Respondents' Survey Comments

35. This is a great idea that has many features that would be helpful to student learning. It has been wonderful to work with you all.
36. This is a fantastic initiative. Good job Team! Hope this brings the joy of reading back into the lives of kids.
37. very cool idea, the only thing I would ask is if you have thought what if the AI goes wrong in creating the content, or create inappropriate text and visuals based on what the camera reads? how to intervene,? how to stop inappropriate contents being shared with the reader?
39. I feel like it's a good option for school libraries to automate the process but I don't think that it would be comfortable for individual use.
40. There are also potential patent infringement issues if the response of the program was shared.
41. Does it still work for books in French?
42. I think that's brilliant
43. upon encountering "challenging" new words, provide reader with lower level synonyms of this new word to help text seem less daunting.

# Respondents' Survey Comments

44. Patent/Register the BookBuddy as soon as possible. This BookBuddy would be an effective use not only for the student in the classroom and adults learning English for the first time. Students that have disabilities would also benefit from the features. Look across the curriculum to further connect the effectiveness of your invention. Math, Science for example and add formulas or "cheat sheets" and add youtube connections to demonstrate how the formulas can be used. Lots of potential in this product. Also think of cost efficient ways to market the product. How can the government help those that can not afford the device? If you were to have the goal to put this device in the hands of every student, how would you do this? Fundraising, private donations.....etc. Why not try the challenge to get this device in one classroom in your school. How would you start? How would you advertise? Continue with your adventure, keep thinking about how this device can be used in the workplace to stimulate production for example.
45. great concept
46. What an amazing tool, bravo
47. This is a fantastic tool that promotes literacy skills. Great job!
48. What a great idea! unfortunately, I found I could not see the images well enough as I was not able to enlarge the screen. However the method seems sound and inviting especially for youth. All in all I found the strategy creative, inviting and informative. I think that the reader would appreciate the immediate feedback. it's a very innovative idea and forward thinking. Great use of AI! Well done!
49. Keep a note the words which I don't know and help me review those words later on.
50. have a way to keep a note of the new words and review the words later on.
51. Look promising



# Respondents' Survey Comments

52. Such a novel (pun intended) idea! It is a great tool to encourage the love of reading and increase comprehension. My only thought is it should not be used to replace reading, as forming "worlds" in one's mind is part of the joy of reading. Well done!
53. Innovative idea!
54. Using an ebook do you really need this. You have computer right in front of you. Ebooks has a built in dictionary to use. The only thing it really does is read for you. Maybe a few extra features would help.
55. As you continue to improve the coding and the machine learning, adaptive scanning will improve the reliability of this work. This is a phenomenal first step!
56. It looks good for kids gr1-4 or for people who love movies and can't find one of their favourite book
57. This is an amazing idea, congratulations on what you've done so far!
58. this is amazing! great work!!
59. I teach SK so it doesn't apply to my grade.
60. Awesome work - congratulations!
61. 1. Regarding the subscription price: the school would pay for it, so the decision would be up to them, not the classroom teacher.  
2. I see this device being used by one student at home; I'm not sure how well it would work in a classroom. It appears to be more of an individual-user device.
64. I think that it is pretty good but it kind of involves too much A.I
65. Book buddy looks very interesting

# Respondents' Survey Comments

66. Is it possible to make it so a book with pictures can be a book without pictures?

67. no i think its a great program

68. It is a very useful item! Very good job guys!

69. I really like it

70. It is a cool invention!

71. i think that it is very fun and inspiring

72. Maybe add a setting icon about what Grade are you in.

73. Make it more understandable for kids. I found it difficult to figure out what to do.

74. I do not have any suggestions or comments. I absolutely love the BookBuddy!!!

75. Use more simple language for younger children.

76. The BookBuddy sounds like a great solution!