



# Newton | The Physics Bot

By Nicholas Brown

Newton Bot is a friendly, physics-savvy assistant that helps you understand concepts, solve problems, and prepare for exams with ease! Newton is built by Dev Shah under the expert supervision of Prof. Nicholas Brown, Prof. Srinivas Sridhar and Prof. Tom Kelley.

How can you help?

Teach me the basics

Teach me

# Newton | The Physics Bot

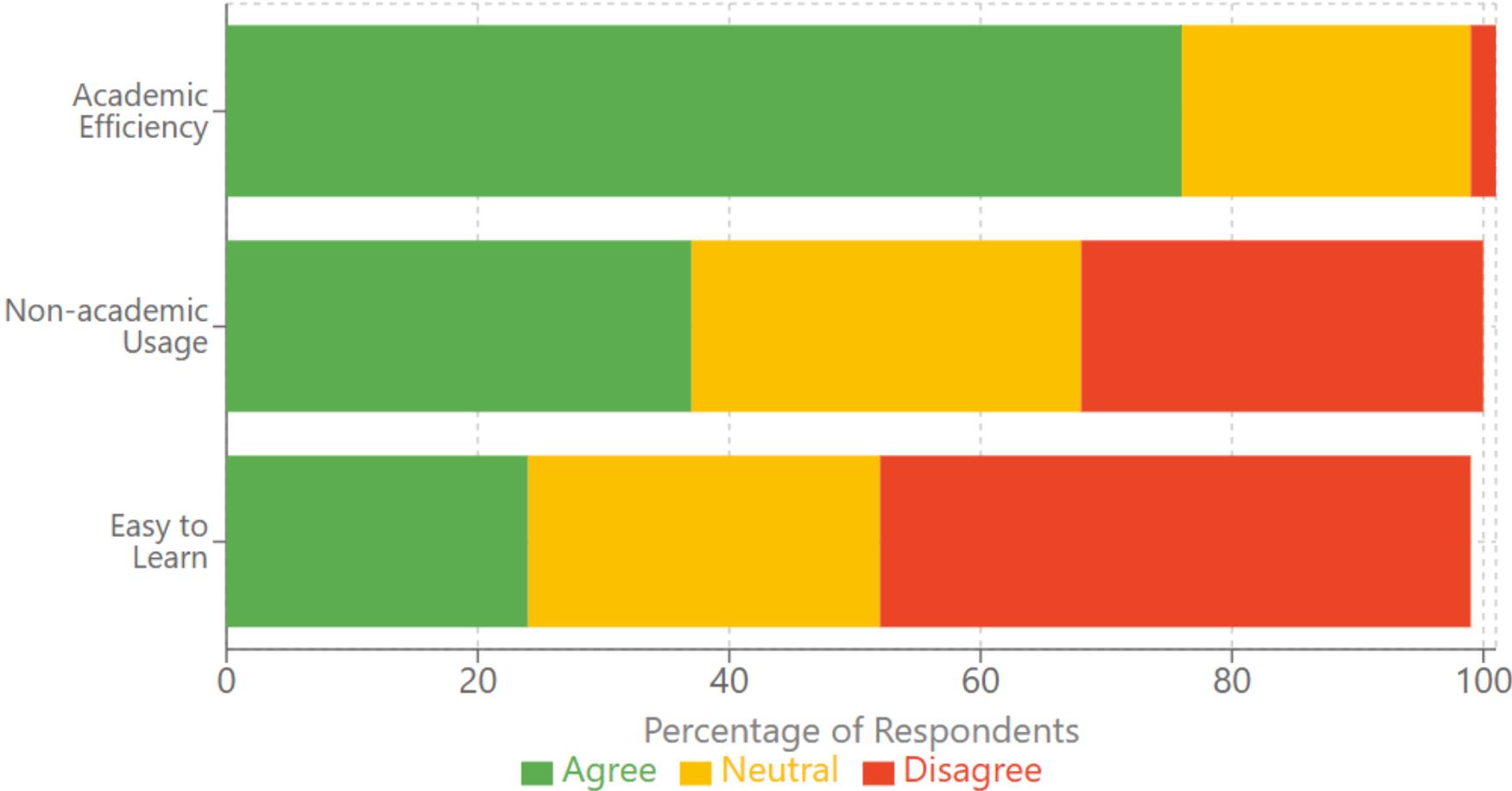


The logo for 'AI Tutor' features the text 'AI Tutor' in a dark blue, sans-serif font, centered within a large, irregular, light green shape. This shape is composed of several concentric, slightly offset layers of varying shades of green, creating a sense of depth and movement. The overall design is clean and modern.

## AI Tutor

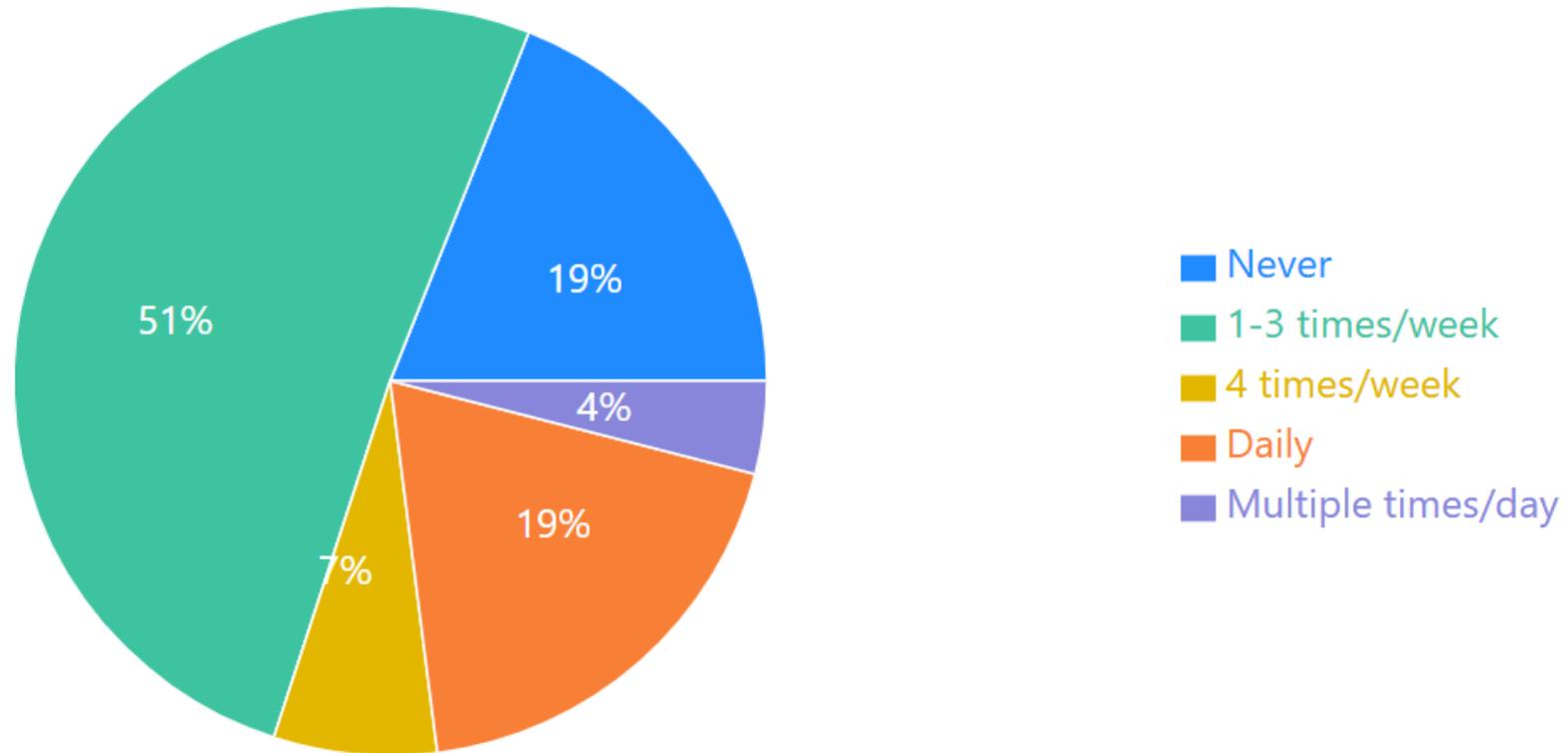
- Created a specialized “GPT”
- Trained on the OpenStax textbook *University Physics*
- Limited the bot’s scope
- Instructed to approach with a Socratic method, always showing steps

# General AI Perceptions

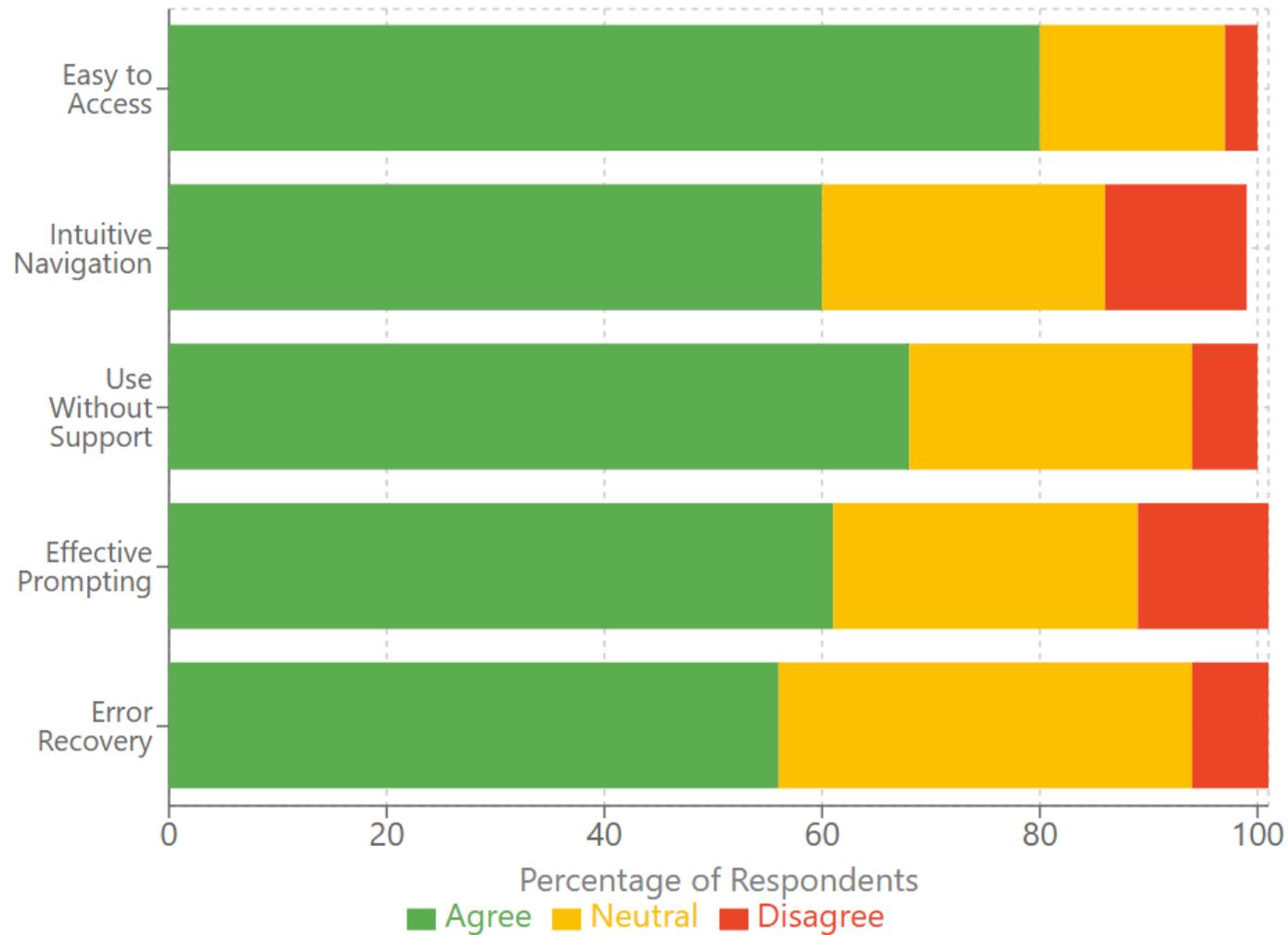




## Usage Frequency



## Chatbot Usability





# Student Comments

- *“The chatbot is very helpful at breaking down step-by-step physics problems. And, if it is still unclear why a step was taken, the AI system will happily break it down even further or explain in more depth.”*
- *“I liked it a good bit better than regular chat GPT and it seemed to be more helpful. However, it was not 100% accurate and can make small mistakes sometimes.”*
- *“I feel the main strong suit on the chat bot is the problem-solving technique and how it can show me exactly where I make mistakes and how to correct them.”*
- *“I ran out of attempts because I would ask multiple question to explain a problem. I got to question 5 after asking 2-3 follow-up questions per question.”*
- *“It is very efficient in consolidating material and concepts. Sometimes, we hear and take notes of various concepts, but lack a connection between them.”*