



# Kahoot! Certified for schools



## Advanced Certification

### Data driven instruction

Welcome to Kahoot!'s Advanced Certification course on data-driven instruction, with our special guest host, Jack Quinn! Before we get started, please don't share these guides further, they are only for those getting certified! :)

Once you complete this course, you'll achieve the following learning objectives:

1. Learn which **questions to have in mind** when looking at student data
2. Learn **how to apply these questions** for teacher intervention and instruction
3. How to **access and use data in Kahoot! reports** - basic and advanced - for further instruction

After you review the course material, you'll be ready to take the assignment via our app in order to receive your exclusive badge.

In order to complete the course assignment, you'll need to download the Kahoot! app to your iOS or Android device. You can find it in the [App Store](#) or on [Google Play](#).

#### Here's a reminder of how to open a Kahoot! challenge with the assignment:

1. After downloading the Kahoot! app to your mobile device, **log in** to your Kahoot! account - we need this info to be able to send you your diploma and badge!
2. When prompted to open the assignment challenge, **click the URL** to open the challenge in-app, or enter the PIN manually.
3. You'll then be able to **accept the challenge**, and play the assignment, which is structured as a multiple-choice kahoot quiz. You can do the assignment in short rounds taking breaks in between, or all at once.



# Which questions should data answer?

Kahoot! goes beyond being a fun motivation for students to study or reward - with it, you can capture useful instructional data for formative assessment. Yet how can you make the most out of all the data to better target and direct your instruction?

Start by asking these core, high-level questions to map out what you want your data to answer. This also helps demystify the term “data” itself.

When looking at the data...

1. Did many of my students make the **same** mistake?
2. If so, why?
3. Does **new data** support the reason from number 2?
4. When looking at new data, are students getting better at getting the right answer for these problems?





# How to apply these questions when instructing

How do you take the top level questions from above and apply them to your instruction?  
Follow this step by step guide.

## Step 1

Look for kahoot questions where there is a lot of student misunderstanding - a good benchmark is a question where **20%** or more students got the wrong answer

## Step 2

Find out...

- ▶ Are students making the same mistakes in a kahoot?
- ▶ Next, test your assumption of the common mistake - via mini lesson, quizzes or homework

Take informal steps to test assumption, e.g. ask students what they liked about the answer they chose, what evidence suggests that answer might not be right, or what evidence might cause someone to doubt this answer

The goal is to identify the common misunderstanding, whether that be part of the structure of the question (such as remembering to choose any of the correct options, or only the false option) or a conceptual

misunderstanding. If you find yourself explaining multiple questions on the same subject matter, this is good evidence to support re-teaching in either a whole or for a small group of students, depending on how widely held the misunderstanding was.

## Step 3

The focus is now on experimentation and remediation actions - trying out solutions and measuring if they work or not.

In response to the student feedback gathered in previous steps, take some minutes to go through the big clues to understand the focus of the question, as well as which key points from instruction or class activity helped students remember the information needed to decide between answer choices. I.e. from the students' perspective - given the focus of this question and what they know, why do they think each answer choice is correct or incorrect?



## How to apply these questions when instructing

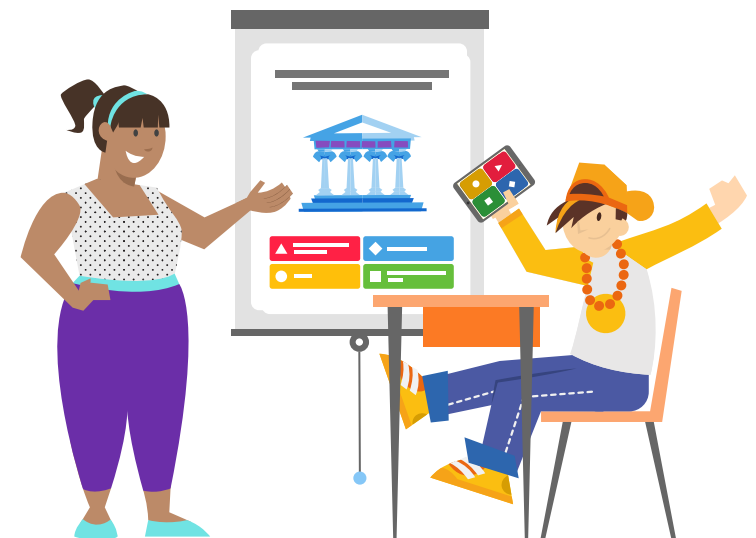
Sometimes this simple explanation is enough, and if you plan to build in another similar question into the kahoot you can see growth just by comparing scores from earlier questions to later questions.

However, sometimes, the root cause of misunderstanding will be elusive. As an educator, you can go through multiple cycles of attempted remediation and assessment looking for signs of student progress. This is not uncommon!

### Step 4

The final step is to understand what your next formal assessment should answer. After playing a kahoot and going through the report data, take the most common misunderstandings and thread them into the next kahoot to see the effectiveness of your explanation and track class progress.

This helps me keep my review efficient and ensure students have multiple opportunities to grapple with difficult problems.





# Exploring data in a basic report

Start by downloading a kahoot report and opening it in your preferred spreadsheet tool.

First, check the total correct percentage **overall**. If it's less than **80%** correct, there should be room for improvement, so dig into the report further.

Next, dig into each question tab to find out where key challenges occur, under the **Answer Summary** section. Be sure to look at:

- ▶ The overall correct percentage of the question
- ▶ How long it took (in seconds) for students to answer

When you come across a question that was answered more incorrectly, immediately check to see if multiple

students were picking the **same wrong answer**. If they didn't, it could be the wording of the answer options was confusing or the students had a lapse in concentration. If they did pick the same wrong answer, dig in further.

Don't be afraid to re-teach. Since the focus is not summative assessment, you should take advantage of the data you find in these reports and use it to your advantage when re-teaching, or building out further questions in a kahoot that test whether the issue is conceptual understanding or the structure of the question (as outlined previously).



The Physics of a Football Pass					Click to enlarge
Q1	Which two factors are directly involved in velocity?				
Correct answers	Speed and direction				
Players correct (%)	42.86%				
Question duration	30 seconds				
Answer Summary					
Answer options	▲ "Speed and direction"	◆ "Gravity and the rate of change"	● "Gravity and speed"	■ "Direction and gravity"	
Is answer correct?	✔	✘	✘	✘	
Number of answers received	3	2	2	0	
Average time taken to answer (seconds)	5.77	6.80	7.52	0.00	



## Exploring data in a basic report

Moreover, be sure to look at the **Answer Details** section on a question to check which exact student (via their nickname) is answering incorrectly. How long are they taking to answer? If they are answering faster than their peers and making errors, you may need to focus on their lack of attention. Yet, if other students are answering the same question easily, it could be they are lost and picking an answer at random. This is an opportunity to have a follow up discussion with the student.

When looking at data from questions you've adapted or are using for re-teaching, check the impact of testing your assumption as to why you think a certain wrong answer was chosen. You can continue this cycle of testing, making an assumption, looking at data, and re-teaching accordingly, to improve answers and ensure intervention is effective.

Answer Details					 <a href="#">Click to enlarge</a>
Players	Answer	Score (points)	Current Total Score (points)	Answer time (seconds)	
Aggie??	<input checked="" type="checkbox"/> Speed and direction	902	902	5.86	
Connor	<input checked="" type="checkbox"/> Gravity and the rate of change	0	0	5.68	
Ethan??	<input checked="" type="checkbox"/> Gravity and the rate of change	0	0	7.93	
Nathan	<input checked="" type="checkbox"/> Speed and direction	960	960	2.40	
Riley	<input checked="" type="checkbox"/> Gravity and speed	0	0	4.65	
Sean??	<input checked="" type="checkbox"/> Speed and direction	849	849	9.05	
 Zoe	<input checked="" type="checkbox"/> Gravity and speed	0	0	10.38	

Switch tabs/pages to view other result breakdown

[Overview](#) [Final Scores](#) [Question Summary](#) [Question 1](#) [Question 2](#) [Question 3](#) [RawReportData Data](#) [+](#)



# Exploring data in an advanced report

With Kahoot! Pro for schools, advanced reports provide a more accessible and visual overview of data, as well as presenting various insights in a neat, visual way.

As a recap, once you land in a report, the summary at the top will show key stats, such as which question was trickiest and easiest.

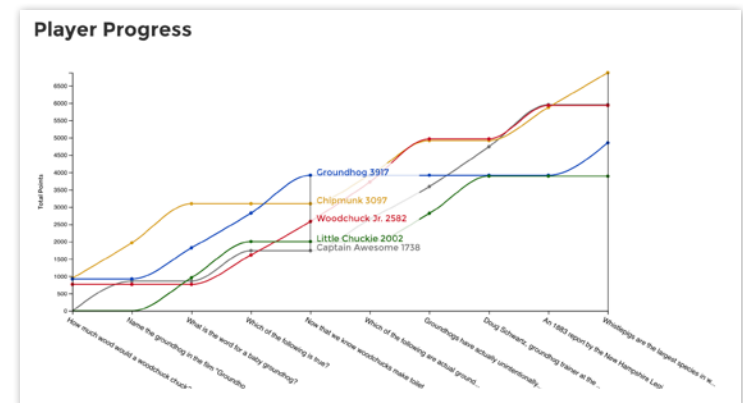
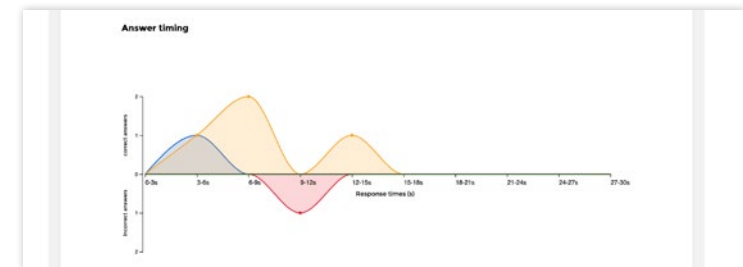
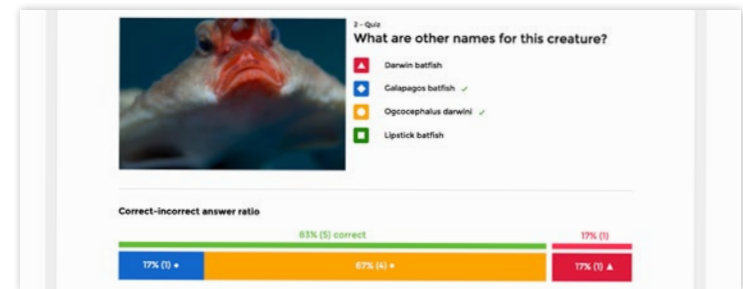
If you jump to the **trickiest question**, you can immediately see if students are getting the question wrong for the same reason.

You can also track **student effort** in the same place by viewing the time taken to answer. I.e. how long did the students who got it correct take to answer, compared to those who got it incorrect? From there, you can make more assumptions as to why those who answered incorrectly did so.

Finally, there is a chart showing **player progress** throughout the game. This graph will help you understand if a specific player was in the lead all the time, if a player progressed steadily throughout the game, or, if they performed more erratically.

Always keep in mind the core insights when looking at data, to ensure more effective intervention:

- ▶ Is there a question that a lot of students missed?
- ▶ For the question they missed, did they miss it for the same reason?
- ▶ Is that reason related to content or motivation?





## Exploring data in an advanced report

### Advanced reports in the app

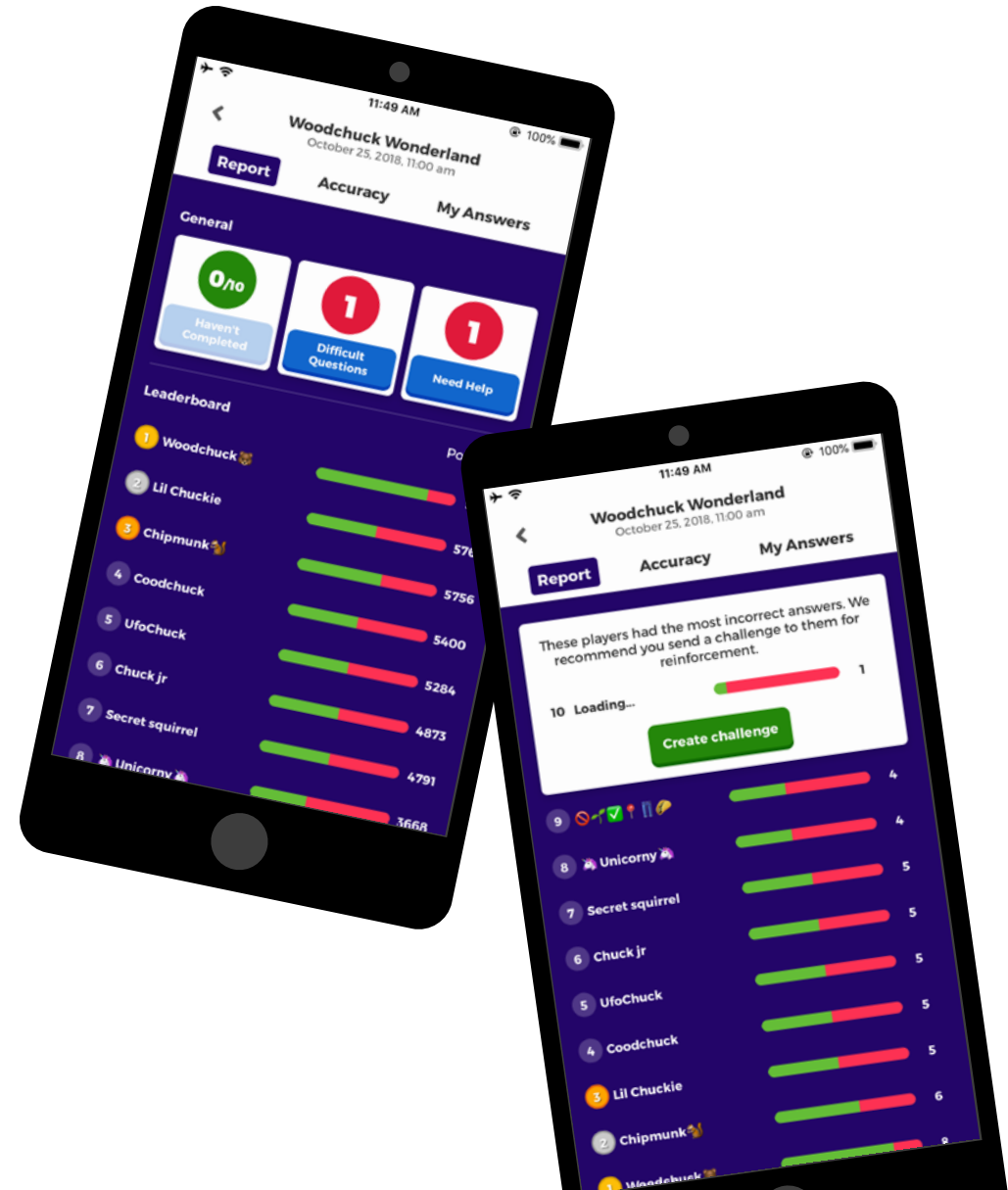
With Kahoot! for schools, you can also access detailed reports in our mobile app, which provide even more actionable insights.

#### 1. Incomplete challenges

This section is most relevant for challenges assigned as homework. Students may need a reminder if the challenge is still active, or, it can show that the challenge might've been too difficult to complete in the time assigned.

#### 2. Prompts to follow up with students

If some participants got less than 30% answers correct, you'll receive a prompt to follow up with them. This will help with teacher intervention to understand why they were struggling - and if they got the answers incorrect for the same reason. Resending the challenge later - with randomized answers - will help understand if students have improved their understanding of the content.







## Exploring data in an advanced report

### 3. Flag topics or questions for reteaching and formative assessment

The most difficult questions - i.e. the ones students struggled with most - are also flagged in the report. This helps identify which content areas as a whole students are challenged by, and which areas need reteaching or reinforcement.

### 4. Leaderboard ranking

In the leaderboard section of the report, you can sort to choose whether you want to see students ranked by their scores, number of correct answers or percentage of completion of a kahoot. This helps identify different areas of need clearly.

**That wraps up Advanced Certification: Data driven instruction!** Once you're ready to take the assignment, you can find the challenge link on the Kahoot! Certified page, and follow the instructions.

