

Prime Video Sports: Behind the Streams

Note Catcher

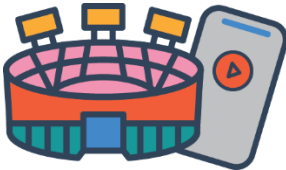


Name _____ Class _____

The Big Questions:

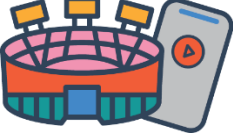
- How do people, computer science, and artificial intelligence work together to bring reliable, high-quality sporting events to millions of people around the globe, in real-time?

Directions: At each stop on the tour, match the new vocabulary word with its definition using the word bank below. At the end of each stop, reflect on what you learned about our investigation question.

infrastructure encode streaming hardware			
Stop	Vocabulary	Facts I learned at this stop/ Questions I still have	
Introduction 	Streaming: Delivering content, such as live sports, over the internet in real-time without having to download the entire file. (Video 2)		
The Pathway of Data 	infrastructure : Hardware, software, and people that work together to deliver a service. (Video 3) infrastructure : The physical part of the infrastructure that makes up a computing system. (Video 3) infrastructure : The process of converting data into a digital format that can stream over the internet. (Video 3)		



decode	computer vision	buffering	troubleshooting	artificial intelligence
latency	Content Delivery Network (CDN)	user stories	machine learning	redundancy

Stop	Vocabulary	Facts I learned at this stop/ Questions I still have
The Pathway of Data (Continued) 	infrastructure ▾ : A system of computers and servers spread out around the world that deliver content to users in different locations. (Video 4) infrastructure ▾ : The delay between the live event happens and when an audience views it. (Video 4) infrastructure ▾ : Using a device or software to convert a digital format into video and audio in real-time. (Video 4)	
Troubleshooting 	infrastructure ▾ : Pre-loading bits of data to ensure a smooth video watching experience. (Video 5) infrastructure ▾ : A systematic approach to finding and resolving a problem solving. (Video 5) infrastructure ▾ : A system design in which a component is duplicated, so if it fails, there will be a backup. (Video 5)	
Building New Features & Conclusion 	infrastructure ▾ : An explanation of a feature from the perspective of the customer. (Video 7)] infrastructure ▾ : using algorithms and machine learning to perform tasks that typically require human intelligence (Video 8) infrastructure ▾ : The science of getting computers to perform or make predictions based on examples or past experiences. (Video 8) infrastructure ▾ : A type of machine learning that enables a computer to interpret and understand information from images and videos. (Video 8)	



