LISA HENNEFARTH : Okay. So all the other graphs seem to be linear and I like that choice of word, seem to be linear. Okay, so we're gonna take this information. It's kinda like a way to build, and now we are going to move towards our original- our next task, okay? So swimming race. Okay, let me ask you guys a question. Anybody in this room swim, like competitively? Anybody play water polo? All right. How many of you have ever seen a race, any kind of a race- any kind of a race? Ah, okay. What kind of race have you guys seen? What kind of a race?

STUDENT 1: Um, cars.

LISA HENNEFARTH : What did it involve? Cars.

STUDENT 1: Cars.

LISA HENNEFARTH : Okay, so a car race.

STUDENT 2: Pod race. A pod race, it's from Star Wars.

LISA HENNEFARTH : Okay. A pod race from Star Wars. Okay. Jaime.

STUDENT 3: Motocross.

LISA HENNEFARTH : Motocross. Okay. So we've got car- motocross that's motorcycles, right? Okay. Dirt biking. Anybody else? What other kind of racing have you seen? Track. Like track and field, like racing like on a track like if peak- hurdles or- hurdles, peak. Anybody else? What is lightning between- cars. Okay. All right. I think you're gonna say Steve McQueen because hebut he was an actor. All right. Let me ask you guys this question. Did anybody in this classroom see the movie Ford versus Ferrari? You saw it? Okay. Do you guys like car racing?

STUDENTS: Yeah.

LISA HENNEFARTH : Okay. Go see that movie. It is- I saw it. It's amazing. It's an amazing movie. It's about car racing and, uh, this guy. So did anybody- nobody's seen it? Emma and Mia are the only two that have seen it in the room? Nobody else has seen it? Well, somebody might-well my other class has told me about it. You saw what? That's the- okay, but it's not like that, but this is actually race car, right- right. All right. So what makes a race exciting? For those of you that have seen car racing motocross-

LISA HENNEFARTH : -track, what makes a race exciting?

STUDENT 4: My dad races cars.

LISA HENNEFARTH : Your dad races cars. Okay, do you go and watch him? Okay. What makes it exciting?

STUDENT 4: I don't know, if they win [inaudible 00:03:01] the team wins.

LISA HENNEFARTH : If the team wins. Okay. What else makes race- if you're gonna watch a race, what makes it exciting to watch?

STUDENT 5: The sound effects.

Inside Mathematics

LISA HENNEFARTH : Sound effects. Of course, it is always important. Of course. Jaime, your hand was up.

STUDENT 2: How loud- how loud the [inaudible 00:03:19] is.

LISA HENNEFARTH : Oh, how loud it is. Okay. What else? If you watch a track race, what's exciting?

STUDENT 5:: The gun going off.

LISA HENNEFARTH : That they're competing with each other. Okay, Jaden, what-

STUDENT 5: I said the gun going off.

LISA HENNEFARTH : The gun- so the start of the race?

STUDENT 5: Yeah.

LISA HENNEFARTH : So the gun going off. Anybody else? Okay. So what about when, like there's people like change leads, like the lead changes, or somebody- you guys ever watched hurdles where somebody knocks the hurdle over, or car racing? God, there's a lot of things that happen in car racing. They crash. That's pretty devastating. It's almost scary when you watch that, right? So, okay, so we're gonna do, is we're actually gonna watch a swimming race. And this swimming race, I want you to just listen to the announcers, and there's certain parts of this race that I'm gonna either speed through, in order for you to be able to hear it. All right. So here we go. Oops.

Announcer: That was one of the most expected races. The goal of Michael Phelps was winning eight gold medals. More medal-

LISA HENNEFARTH : So this is a race between the USA and France, in the Olympics.

Video playing Announcer: (speaking French)

(applause)

Announcer: Lezak in first, Amaury Leveaux of France leads it off. Oh, look at Eamon Sullivan from Australia, though! Wow, he's out. Oh my goodness, 22.48? Look at the world record line! Way ahead of it is a number of swimmers.

(intense music)

(dial tone)

Alain Bernard: (speaking French)

(cheering)

Alain Bernard: (speaking French)

Lezak is closing a little bit on Bernard. Can the veteran chase him down and pull off a shocker here? Well, there's no gap, it is tight enough! Bernard is losing some ground! Here comes Lezak!

Unbelievable, at the end! He's done it! The US has done it! They've done it! (cheering) Phelps's hopes alive!

(speaking French)