

The Ultimate Throw

Let's Model in 3 Acts

Lesson 2-4

I can ... use mathematical modeling to solve problems.



ACT 1



ACT 1

1. After watching the video, what is the first question that comes to mind?

2. Write the Main Question you will answer.

3. Predict an answer to this Main Question.

The person who threw the flying disc farther is

4. **Construct Arguments** Explain how you arrived at your prediction.

ACT 2

5. What information in this situation would be helpful to know?
How would you use that information?
6. **Use Appropriate Tools** What tools can you use to solve the problem?
Explain how you would use them strategically.
7. **Model with Math** Represent the situation using mathematics.
Use your representation to answer the Main Question.
8. What is your answer to the Main Question? Does it differ from your prediction? Explain.

ACT 3

9. Write the answer you saw in the video.

10. **Reasoning** Does your answer match the answer in the video? If not, what are some reasons that would explain the difference?

11. **Make Sense and Persevere** Would you change your model now that you know the answer? Explain.



Reflect

12. Model with Math Explain how you used a mathematical model to represent the situation. How did the model help you answer the Main Question?

13. Make Sense and Persevere When did you struggle most while solving the problem? How did you overcome that obstacle?

Build G.R.I.T. Resilience

Overcoming obstacles is part of your journey to success!



Create a Problem

14. Write your own problem related to the video in Act 1. Include any information needed to solve your problem. Explain how you would use a mathematical model to represent the situation. Then solve your problem.