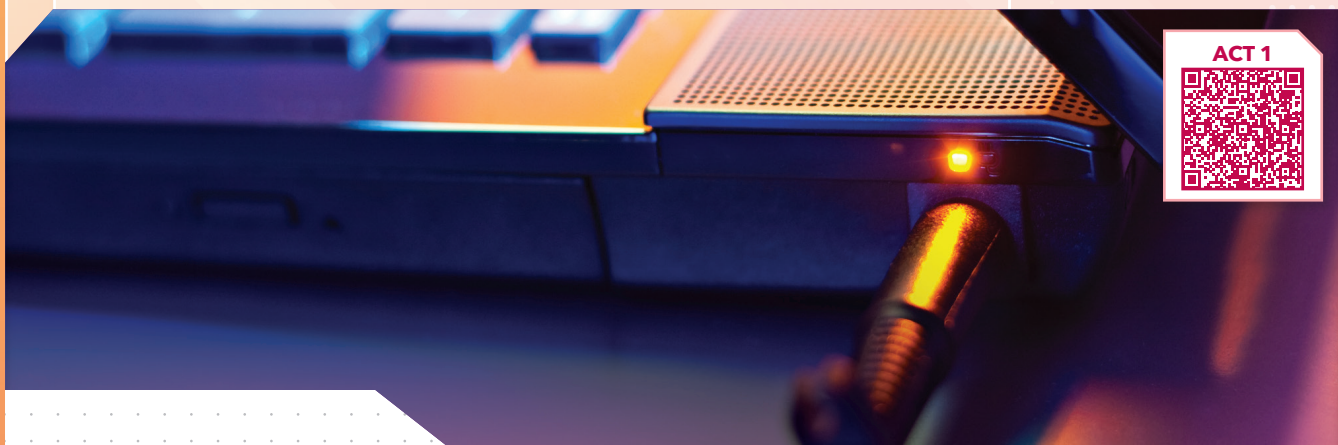


Powering Down

Let's Model in 3 Acts

Lesson 2-6

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. **Construct Arguments** Predict an answer to this Main Question. Explain your prediction.
4. On the number line below, write a time that is too early to be the answer.
Write a time that is too late.

Too early

Too late

5. Plot your prediction on the same number line.

ACT 2

6. What information in this situation would be helpful to know? How would you use that information?

7. **Use Appropriate Tools** What tools can you use to solve the problem? Explain how you would use them strategically.

8. **Model with Math** Represent the situation using mathematics. Use your representation to answer the Main Question.

9. What is your answer to the Main Question? Is it earlier or later than your prediction? Explain why.

Build G.R.I.T. Self-Efficacy

When your estimate is not close to your exact answer, reflect on your original assumptions. Believe in your ability to improve your estimate next time.

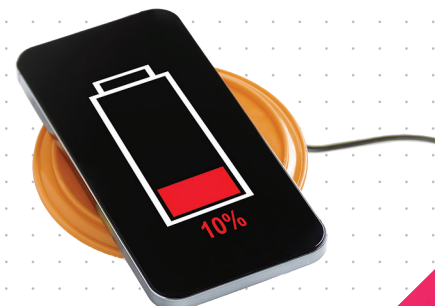


ACT 3

10. Write the answer you saw in the video.

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

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



Reflect

- 13. Model with Math** Explain how you used a mathematical model to represent the situation. How did the model help you answer the Main Question?
- 14. Look for Relationships** What pattern did you notice in the situation? How did you use that pattern?

Create a Problem

- 15.** 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.