

The Power of Using Storytelling in Teaching

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Personal Background

- B.Sc Mathematics, The University of Jordan (2000).
- The International School of Choueifat, Amman. (2000-2001)
Member of *SABIS* schools network <http://www.sabis.net>.
- The University of Toledo (2001-2006)
- Grand Valley State University (2006-present)

My Family



Fear of heights



Figure: Zip line at 5th grade camp (2019)

Guidelines

- True: story is authentic from the teller's perspective.
- High Stakes: something to win or lose so others invest in the storyteller.
- Narrative arc: story has a beginning, a middle, and an end.
- Change: the storyteller is different before and after an event.
- Show vs. tell: the storyteller paints a picture with words.

The bunnies story



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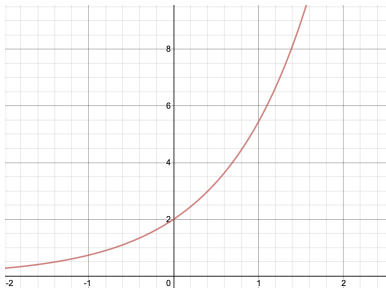
The bunnies story



The bunnies story

$$\frac{d}{dt}A(t) = k \cdot A(t)$$

$$A(t) = A_0 e^{kt}$$

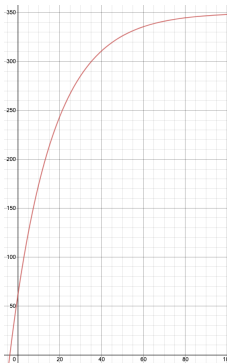


Mom's dry cake story



Newton's law for heating and cooling

$$\frac{dT}{dt} = k(T - T_{\text{env}})$$



Think share activity

- Think of a true math-related story that you love to share with your students in your class next week. Why did you choose this activity?
- Share your idea with us.
- **THANK YOU!**