

Probability Simulations for All

Rachael Gorsuch & Scott Keltner
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Welcome and Structure of Tonight's Webinar

- Welcome and getting to know Scott and Rachael
- Middle School activity
- Data Collection and inference

Guiding Questions

- What is probability simulation?
- How can probability simulation be used to help students gain intuition about probability?

A Starting Point...

What is probability simulation?

- Probability simulation is a way for students to generate multiple data samples to gain intuition about what is happening with a scenario. This can be done physically (e.g. rolling a die or choosing a card) or with technology (which allows for simulations to be taken more quickly).

For Beginners

- Your first steps into probability simulation can be made a little easier by having a ready made lesson to support you.
- TI Math Nspire Activity:

[One and One Equals Win](#)

(feel free to download and play along at home!)

The Importance of Good Tasks and Good Pedagogy

- The interaction between the teacher and her students is important during the simulation or it can become meaningless clicking of a button. Pushing students to make connections, to explore what they are seeing, and to justify their thinking is the role of the teacher.
- Engage students throughout the tasks to create the best learning situation.

One and One Equals Win

Additional Resources for Beginners

- TI Building Concepts:

[Statistics and Probability/Probability and Simulation](#)

Includes: video, student activity, teacher notes, TI-Nspire activity

Guiding Questions

- What is probability simulation?
- How can probability simulation be used to help students gain intuition about probability?

Our Challenge to You

This is a snapshot of what probability simulation looks like in our classroom. What can you do in your classroom to promote using simulation:

- this week?
- this month?
- the rest of this school year?

Share your ideas on Twitter with the hashtag #T3Learns and tag us! @rachaelhgorsuch and @ScottKeltner

Thank you!

We have enjoyed our chat tonight!

Between now and then, if you'd like to share ideas, please feel free to contact us at:

Scott Keltner Twitter: @ScottKeltner

Rachael Gorsuch rachael.gorsuch@gmail.com or Twitter: @rachaelhgorsuch

We sincerely hope to hear from you and will be checking Twitter all this week to hear more about your ideas!