# Desmosify Your Math Classroom

**2019 NW Math Conference** Pre-conference Workshop  
**Presenter:** Patty Stephens  
**Date:** Nov 10, 2019, 9 am - noon  

## Purpose of Session:
We will explore the Desmos graphing calculator and Desmos Classroom Activities and how these tools can be integrated into instruction to support student learning of mathematics.

## Learning Outcomes:
By the end of our time, teachers will:
- **Experience** math tasks from the student perspective.
- **Consider** how the Desmos Graphing Calculator and Desmos Classroom Activities can be used to support student learning and exploration.
- **Level up** their graphing skills by completing a series of graphing challenges.
- **Discuss** next steps for using Desmos with their own students.
- **Plan** a Desmos activity for classroom use.

## Agenda:
### RESOURCES
- **Slide show**

### INTRODUCTION
- **Desmos pre-survey**

### Desmos Graphing Calculator
- **Visualpatterns.org**
- Calculator resources
  - Learn the Basics
  - Awesome Graphs
  - Scavenger Hunts

### Desmos Classroom Activities
- Experience an activity: middle school, algebra 1, calculus
- Classroom Activities at [teacher.desmos.com](teacher.desmos.com)
  - Bundles & Collections
  - Purpose: introduction, development, practice, application
- Special Activity Types
  - Card sorts: Expressions Mash-up, Lines, Modeling, Derivative Match
  - Polygraphs: Shape Bucket, Lines, Parent Functions, Polynomial Pandemonium
  - Marbleslides: Mini-Golf, Lines, Periodics
  - Challenge Creator
    - More about Challenge Creator on Des-Blog
    - Dan Meyer’s blog: Two Truths and a Lie

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*Patty Stephens, Desmos Fellow & K-12 Math Curriculum Specialist, Northshore School District*
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<td>● Search <a href="https://teacher.desmos.com">teacher.desmos.com</a></td>
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<td>○ Desmos Awesome Activities</td>
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### Facilitating a Desmos Activity

- **Teacher dashboard**
  - Classroom Conversation Tools
  - Snapshots
- **Teacher Guide and tips**

### Desmos Activity Builder

- **Desmos Activity Showcase**
- **Activity Builder**
  - How to copy/edit someone else’s classroom activity
    - Original: [LCHS Desmos Art Project](https://teacher.desmos.com/activitybuilder/custom/850402)
    - Patty’s activity: [Desmos Snowglobes](https://teacher.desmos.com/activitybuilder/custom/170047)
  - Building an activity from scratch
    - [Binary & Hexadecimal Numbers](https://teacher.desmos.com/activitybuilder/custom/121280) (STEM)
  - Tips for building activities and delivering lessons
- **The Desmos Guide to Building Great (Digital) Math Activities**

### Wrap-up

- **Feedback**

### “Happy Desmos-ing!”

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**Contact Patty**

- Twitter: [@pattystephens](https://twitter.com/pattystephens)  
- Email: [patty@pattypapers.com](mailto:patty@pattypapers.com) or [pstephens@nsd.org](mailto:pstephens@nsd.org)

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