What Tools Will Jazz Up Math Concepts?

AMATYC 2015 - S185

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Desmos Activities

Function Carnival
- Graphing, functions, lines, quadratics, modeling
- Find My Way

Desmos – Activity 1 – Function Carnival

- Go to the following: https://student.desmos.com/
- Enter in code: reh8
Function Carnival

Desmos Activity Builder
teacher.desmos.com
Find My Way – Created by Lorinda
student.desmos.com
Code: apub
Find My Way

Desmos – Activity 2 – Find My Way

Go to the following:
https://student.desmos.com/

Enter in code: dpv7

Find My Way
**Find My Way**

**Apps**
http://catalog.mathlearningcenter.org/apps

- **Pattern Shapes**
- **Geoboard**
- **Number Frames**

**Human Coordinates**
- Define the coordinate system
  - Use the given floor
Problem Solving with Patterns
How many tiles in the 100th term

Describe the 25th term

Find an equation for the nth term or a model for an nth term
Patterns App
http://catalog.mathlearningcenter.org/apps/pattern-shapes

Open Web App
Download:
Apple App Store
Windows Store
Chrome Store

Make My Pattern (Problem Solving)
• I used equal number of yellow, green, blue and red pieces
• My design is like a triangles
• None of the colors touch each other except at a vertex
• Yellow pieces are at the corner
• 6 Hexagons will cover the entire design
• Only the red colors touch at the vertex

Creating a Number Line - Activity
• Create a number line at least -10 to +10
• Define a unit. Standard Rulers not allowed.
• Plot a center
• Plot integers
• Plot rational numbers (examples: 1/2, 1/5)
• Plot irrational numbers (examples: √2, √5)
• Plot pi

Geoboard App
http://catalog.mathlearningcenter.org/apps/geoboard

Open Web App
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Geoboard Activity

• Find the following if possible
  – Square area 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
  – Find the square with the maximum area
    • What is the area?
    • What is the perimeter?
  – How many different squares can you make on a 4x4 geoboard grid?
    • What makes a square the same?
    • What makes it different?
    • Does the location of the square make it different?

Find the Area and Perimeter of the Red Shape

Egg Carton Activities
Make your own

Egg Carton Fractions

1. Show the fractions on the egg carton. Each square represents 1 whole.
Number Frame App
http://www.mathlearningcenter.org/web-apps/number-frames/

Open Web App

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Number Frame App
How many tiles in the 100th term 305

Describe the 25th term 2 red tiles and 26 columns containing 3 black pieces

Find an equation for the nth term or a model for an nth term $f = 3(n+1) - 2$
Thank you for coming

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