

Teaching Mathematics with Technology: Activities and Ideas for Your Classroom National Council of Teachers of Mathematics Conference April 26, 2018 Washington, DC	 Teaching Mathematics with Technology
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Learn more about MOOC-Eds @ The Place - The Friday Institute at NC State: place.fi.ncsu.edu

Videos

- 1) ****Expert Panel:** <https://www.youtube.com/watch?v=ZGTR1J2-j-0>
- 2) ****Dan Meyer:**
https://www.youtube.com/watch?time_continue=11&v=M9Dr1TDb52k
- 3) ****Middle school students' work on the function machine task:**
<https://www.youtube.com/watch?v=-tJGzpiVPCg&feature=youtu.be>

Technology-Based Tasks

- 1) ****Desmos Charge! Activity- Link for the NCTM Session.**
<https://student.desmos.com/?prepopulateCode=e394rs>

Teacher resource for Charge! Activity:
<https://teacher.desmos.com/activitybuilder/custom/563a59893f80f2fd0b7c77f0>
Additional resources: Desmos.com
- 2) ****Geogebra Function Machines:** <https://www.geogebra.org/m/wcuPt43b>

Other Geogebra resources: <https://www.geogebra.org/materials/>
- 3) ****Web Sketchpad:**
<http://geometricfunctions.org/curriculum/dynagraphs/introducing-dynagraphs/index.shtml>

More Sketchpad resources: <http://www.keycurriculum.com/>

** Links used during the presentation

Middle School Students' Definitions of Functions

Student Response 1:

An input that always has the same output

Student Response 2:

A function is when you have a number, or the input, and you apply a rule. ($y = x4$) when you apply the rule you get the same output every time.

Student Response 3:

The input is what you select and the output is what you get out.
The input is always consistent with the output in a function.

Student Response 4:

the output follows a pattern
no matter what the input is.

Student Response 5:

A specific input has a specific output. The rule doesn't vary. If it's a function the data will follow the rule.