



Building on Elementary Visuals to Access Secondary Content


Session Goals

- ▶ Attendees will participate in the process of determining the key mathematical ideas in a secondary standard
- ▶ Attendees will participate in representing complex topics with hands on/visual math
- ▶ Attendees will understand how to access standards using math progressions

Lets do some math!

Factor the quadratic equation

$$x^2 + 8x - 20$$



What is the main mathematical idea in this question? *(is this too vague?)*

What math skills did you need to answer this question?

How could you explain the main ideas using only visuals?

Example – explain how to find the factors of 20 using pictures

How could you show the distributive property using only pictures?

Create a progression

<https://www.youtube.com/watch?v=EDMmnwjRZSI>

Why?

- Wont this take too long?
- This isn't an rich task. Am I helping too much?

How?

- Coherence map
<https://achievethecore.org/coherence-map/>
- Elementary curriculums/resources
 - [SF USD curriculums](#)
 - [Math visuals](#)
- Twitter!
 - #elemmathchat
 - Find some elementary people to follow