Laura McShane
What will grow?  45 min

Objective:
Understand how seeds grow

Big Idea:
Scientists still don't completely understand the miracle of seeds and how they grow

1. Warm Up / Anticipatory  20 min

Share Epic Book:
http://wg.wonderopolis.org/lessons/what-will-grow
2. Investigation and New Learning 20 min

Soak paper towels and pumpkin seeds (or sunflower seeds) - line up the seeds on paper towel in shallow tray, and monitor.
There are a number of factors that affect seed growth - ask the kids to brainstorm:

https://www.giftofcuriosity.com/seed-experiments-and-activities-for-kids-seed-science/

This site recommends using a clear jar:

https://littlebinsforlittlehands.com/easy-seed-experiments-kids/

Keep the towel moist. How many days does it take for seeds to germinate? Plant the sprouted seeds in soil (Because we are in the fall season in Cleveland, Ohio- this might be a project that is better to have in spring.) What is the best way to store seeds?

http://www.clevelandseedbank.org/

The Cleveland Seed Bank is the domestic work of The Hummingbird Project, an international permaculture aid non-profit based in Cleveland, OH. It aims to safeguard and restore the biological diversity vital for sustainable agriculture, both in the U.S. and around the world.

3. Review & Check for Understanding 30 min

Epic Books has a quiz that can be completed after reading the book - What are seeds.

For preschoolers we modify the program with rhymes--Make a circle, circle BIG, BIG, BIG (Small ”)
Hello, hello, hello
Make a circle UP, UP, UP (Down ”) Now let's sit down!

Pumpkin, pumpkin on the GROUND
How'd you get so big and ROUND
Once you were a seed so SMALL
Now you are a great big BALL
Pumpkin pumpkin on the the ground, how'd you get so big and round.

Share the book What Will Grow and this fall classic:
What will grow? - Laura McShane
http://wg.wonderopolis.org/lessons/what-will-grow

Standards: CCSS.ELA-LITERACY.CCRA.R.1