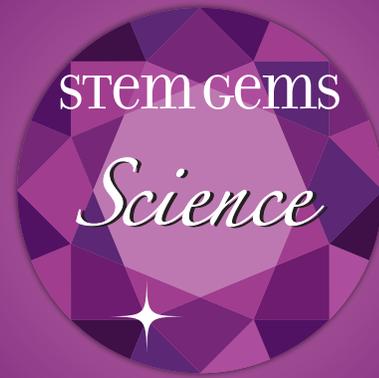


STEM Gem Career:
OCEANOGRAPHER and GEOPHYSICIST

STEM Gem:
MARCIA KEMPER McNUTT

“My mother and father allowed me to pursue every dream, unfettered, regardless of whether they understood anything I was doing.”



Is a career in Oceanography and/or Geophysics in your future? Have you ever considered these career options? STEM Gem Marcia Kemper McNutt is passionate about uncovering the great mysteries of the world's oceans. Read her story and digest. Watch one of her online videos. Then, with your STEM Gems Tribe, **discuss, explore, reflect,** and **act.**

DISCUSS

1. How do Oceanographers and Geophysicists like Dr. McNutt make a difference in the world?
2. What experiences did Dr. McNutt have growing up that led to her pursuit of her career?
3. What is Dr. McNutt's educational background?
4. What are some of the challenges that Dr. McNutt faced along her journey and in her career?
5. What are some of Dr. McNutt's key accomplishments?
6. What inspired you most about Dr. McNutt's story?
7. Dr. McNutt says: *“My mother and father allowed me to pursue every dream, unfettered, regardless of whether they understood anything I was doing.”* How important is support from your family members in achieving your goals?

EXPLORE

1. To pursue a career as an Oceanographer, what college majors should you consider? As a Geophysicist?
2. What colleges and universities have programs in these areas?
3. What types of jobs are available for Oceanographers and Geophysicists? What are the salary ranges for each?
4. What classes should you take in middle and high school to prepare for a career in Oceanography? In Geophysics?
5. Name at least two other women Oceanographers and/or Geophysicists. How are they similar to Dr. McNutt?
6. What professional organizations support women in Oceanography? In Geophysics? Do they have programs established for middle and high school students to learn more about these careers?

REFLECT

Dr. McNutt says that students should be involved in hands-on activities and mentoring programs. What in-school and out-of-school hands-on activities and mentoring programs are available to you? Which are you a part of? How have they impacted your growth?

ACT

It's time to step outside your comfort zone. Name one concrete thing you will do before your next meeting that will have you one step closer to becoming a STEM Gem. Blog about it. Include it in your written or photo journal. Hold yourself accountable.

Work hard. Be brave. Stay curious.

BE A GEM!

Stephanie Espy

P.S. I'd love to hear about your journey. Share on Facebook, Twitter, or Instagram and tag @STEMGemsBook #STEMGemsTribe, or email me at tribe@STEMGemsBook.com.