

Introduction

Teacher:	Grade: 6-12	Date(s):
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Unit Title: STEM Career Exploration

Materials/Resources/Tech	Contextual Vocabulary
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Teacher: assigned/Printed PDFs Student: computer, assigned PDFs	Structural Engineer, Mechanical Engineer, Textile Engineer, Pharmacy Technician, Agricultural Engineer, Chemical Mixer, STEM Expert
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Learning Experience(s)

Essential Standards/Objectives: Students will explore various STEM careers, identify skills and educational pathways required, and evaluate how these careers relate to real-world applications in science, technology, engineering, and mathematics.

Essential Question(s): How do different STEM careers impact our everyday lives, and what skills and knowledge are needed to succeed in these fields?

Gear Up: What careers can you think of that incorporate science and technology like those seen in Sci-Ops?

Independent/Small Group:
 (15-30 min.) STEM Careers (assign all, have students choose 1)

- [Structural Engineer](#)
- [Mechanical Engineer](#)
- [Textile Engineer](#)
- [Pharmacy Technician](#)
- [Agricultural Engineer](#)
- [Chemical Mixer](#)

(15-30 min.) STEM Interviews (assign all, have students choose 1)

- [STEM Expert: Mr. Pauling](#)
- [STEM Expert: Metallurgist](#)
- [STEM Expert: Manufacturing Engineer](#)

Additional Resources for 90 minute class
 Independent/Small Group: (15-20 min) Sci-Ops Gameplay level: 3-6

[Sci-Ops Play to Learn- Levels 1 to 3](#)
[Sci-Ops Play to Learn- Levels 3 to 6](#)

Differentiation Strategies

- Portal & Sci-Ops available in Spanish
- Sci-Ops Play to Learn-optional activity during gameplay if needed for student direction

Assessment(s) & Reflection

Assessment & Closure:

Power Down: Tell me about a STEM Expert you would like to see added to the game and what upgrade would they give to the Sci-Operatives.

Teacher Reflection: (Next steps?)

[Lesson Plan Feedback](#)