

Webinar:

Transforming Health Science Lessons with Scenarios



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Who is Realityworks?



We partner with educators, administrators and industry leaders to ensure our offerings meet their needs and make lessons truly meaningful.

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Co-presented by

Emily Kuhn

Senior Campaigns Specialist



Karen Edwards

Sports Medicine Instructor at Chaplin High School

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Attendees will:

- Review the benefits of scenario-based learning
- Hear 5 tips for making the most of this teaching method
- Hear how Chapin High School Health Science/Sports Medicine Instructor Karen Edwards, ATC, uses scenario-based learning in her classroom
- Learn how tools like Realityworks' Medical Manikin Quick Scenario Set can help you achieve your goals



What is scenario-based learning?



Scenario-based learning is...

- Active (NOT passive!) learning strategy
- Often uses a case or storyline
- Immersive
- Imitate real life



Scenario-based learning is theory-based!



- Situated Learning Theory (Lave & Wenger, 1991)
- Situated Cognition (Kindley, 2002)
- NLN/Jeffries Simulation Theory, 2021

Knowledge Progression



- Foundation of facts
- Addition of context
- Expectation of action

Foundation of Facts

What is the normal oxygen saturation level for a healthy adult?

- a) 72%
- b) 88%
- c) 97%
- d) None of the above



Addition of Context

- Written case studies
- Discussion board postings
- Small group or pair and share conversations
- Large group classroom discussions
- Video



Expectation for Actions

- Simulation
- Role Playing
- Video



Knowledge Progression





5 Tips for Making the Most of Scenario-Based Learning

5 Tips for Instructors

1. What elements do I need to include?
2. When should I use scenario-based learning?
3. Home grown or purchased scenarios?
4. Consider mixed media
5. Be patient!

Tip #1: Consider what elements you need to include

- Context
- Decision-making points
- Clear learning outcomes

Tip #2: Consider when to use scenario-based learning

- After foundational knowledge is established
- When decision-making is key
- Rare incidents that not all students would likely see, or
- Critical high-frequency scenarios that all students should show mastery

Tip #3: Home grown or purchased?

- Either!
- Home grown can be time-consuming
- Be sure to review your purchased scenarios!

Tip #4: Consider a mix of media

- Photographs
- Audio
- Video
- Written

Tip #5: Be patient

- With yourself
- With students
- Evaluate, evaluate, evaluate!



Karen Edwards, ATC, Chapin High School Health Science/Sports Medicine Instructor



Scenario Based Instruction - Ways to Include

- Modeling
- Problem Solving Teaching
- Metacognitive Strategies
- Socratic Seminar



“Across the grades, when instruction was challenging, relevant, and academically demanding, then all students had higher engagement and teachers talked less - and the greatest beneficiaries were at-risk students. “ John Hattie, Visible Learning for Teachers: Maximizing Impact on Learning

Modeling

effect size: 0.75

Clear and concise, follow your train of thought

Case study from personal experience or one you can fully explain the scenario answers

Walk them through a case study



Problem Solving Teaching

effect size: 0.68

1. Model
2. Problem
3. Discuss
4. Struggle
5. Intervene



Metacognitive Strategies

effect size: 0.6

Students develop an awareness of their own learning.

Think-pair-share
Turn and Talk
Think aloud

Works even better with Problem Solving Teaching.

Switch up the techniques depending on the class needs.

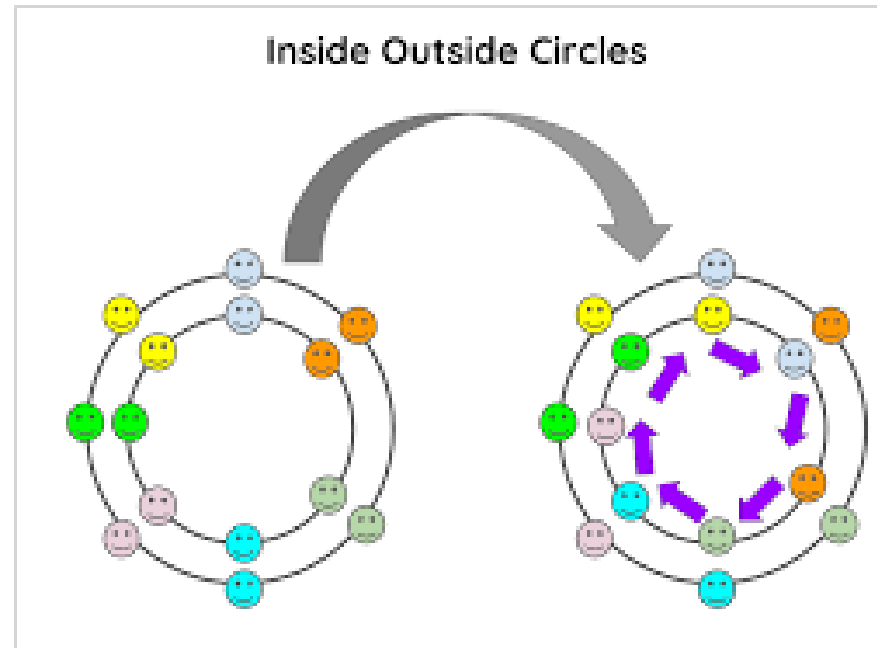
Socratic Seminar

effect size: 0.82

Model 1: Fishbowl

Model 2: Circle of paired chairs

- My preferred way
- Takes time to think through meaningful questions
- Will be odd at first





Help from Realityworks



Medical Manikin Quick Scenario Set

- 100 ready-to-use scenarios
- Variety of ages, care environments, and soft skills
- Each scenario includes:
 - Scenario guidelines
 - Roles
 - Set up instructions
 - Patient descriptions
 - Pre-brief and debrief questions
- INACSL SoBP
- Scenario Cards (5 sets)



Learn more: <https://www.realityworks.com/product/medical-manikin-quick-scenario-set/>

Scenario cards

Available for careers in:

- Nursing
- Geriatric nursing
- Medical Assistant
- Sports Medicine
- EMT
- Dental
- Employability
- Leadership

Learn more: https://www.realityworks.com/product-category/health-science/?v=7516fd43adaa& tag_filter_health=scenario-cards



More help from Realityworks!

- **Blog:** “5 Tips for Health Science Scenario Success (Plus 2 Free Patient Scenario Examples)” Nursing
 - Read it here: <https://www.realityworks.com/blog/5-tips-for-health-science-scenario-success-plus-2-free-patient-scenario-examples/>
- **Free guide:** "Scenario-Based Training in Healthcare: Tips, Tricks, and Scenarios You Can Use Today"
 - Get it here: <https://www.realityworks.com/medical-manikins/>



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Questions?

