

# **AR/VR Healthcare:** *The Rx For Higher Engagement in Health Science Classrooms*

**Sheena Shoemaker**

**Former CTE Instructor  
Health Science Pathway  
AR/VR Success Manager**





**“Technology will not  
replace great teachers,  
but technology in the  
hands of great teachers  
can be transformational.”**

**—George Couros**



# 398

# of students compared\*

# 3-5

zSpace interactions per week

# +11.9%

Lab exam score increase

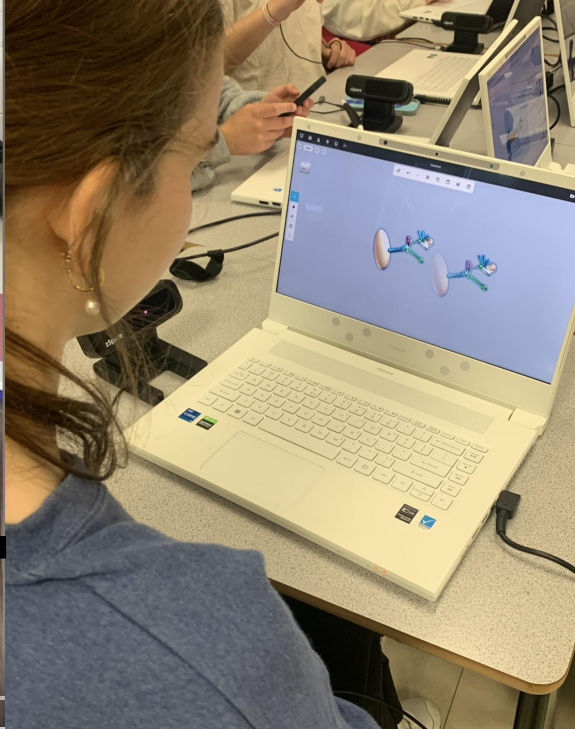
---

\*2017 vs 2019 at Maize Career Academy-WSU Tech

# Terry Sanford HS Fayetteville, North Carolina

**Engaging** students  
in the classroom  
&  
**Excelling** in HOSA





## Reminders:

- ★ zSpark EAR
- ★ Sense of Hearing (zSpace Integration)
- ★

## Engage to Learn

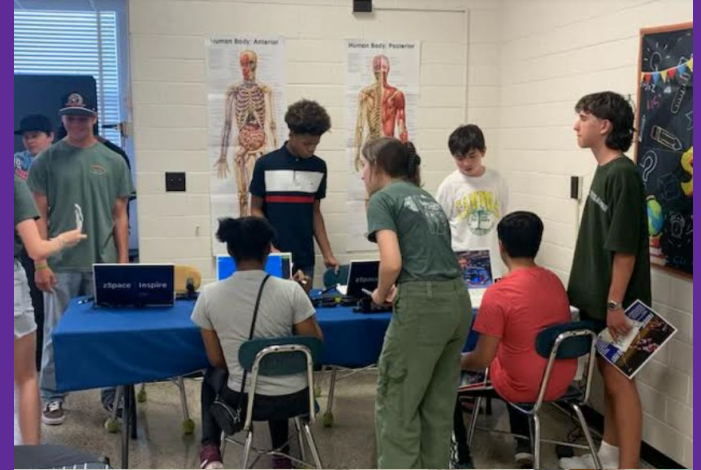
- zSpark - explore the 3D Ear
- Build a clay ear to accentuate key areas
- Brainstorm and design - solve a problem

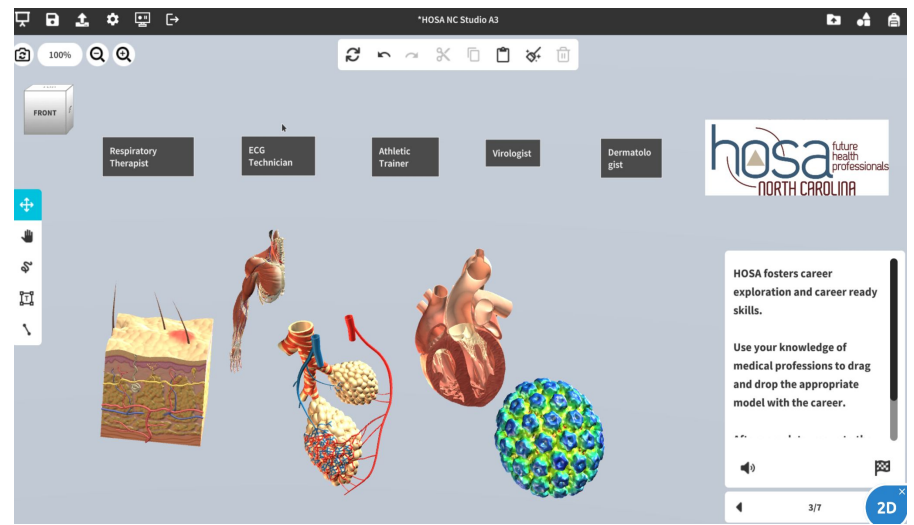
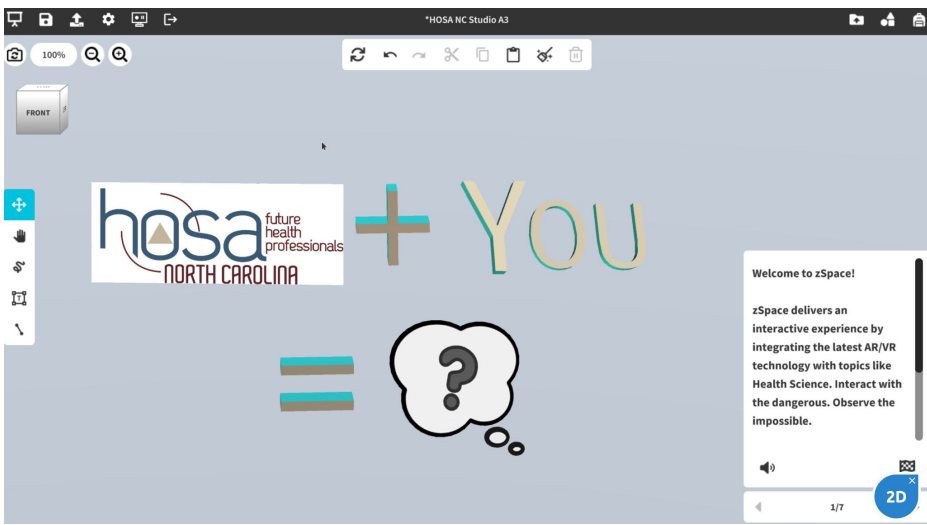


ILC 2024 - Houston, TX



# Engage for Recruitment





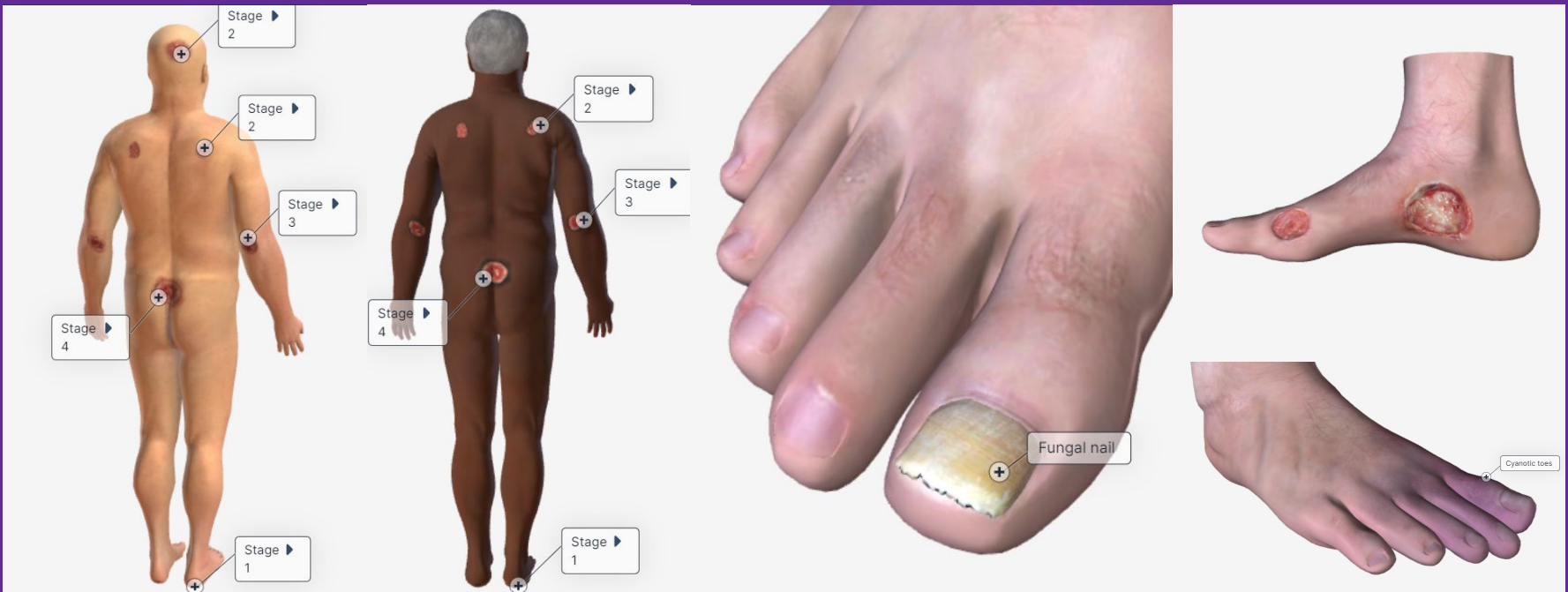
# Create to Engage



# Cape Fear HS Fayetteville, North Carolina

**Engaging** students  
in the classroom  
&  
**Preparing** for  
Clinicals





# Engage to Prepare

# Texas Tech University

**Engaging** students  
in the classroom  
using technology

## Affordances of zSpace - Cognitive Factors



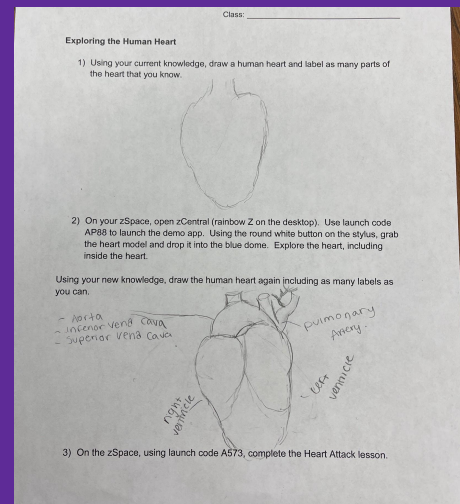
Research by Dr.  
Rebecca Hite (Texas Tech)

# Beaufort HS Beaufort, South Carolina

**Engaging** students  
in the classroom  
based on research



Dawn Peebles  
Beaufort HS

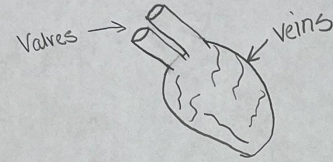




# Engage through Exploration

## Exploring the Human Heart

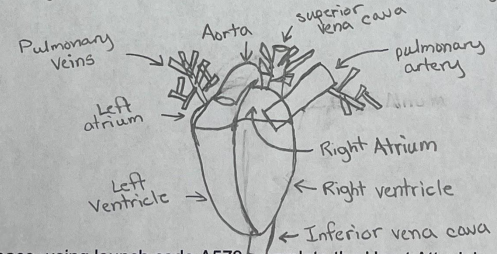
- 1) Using your current knowledge, draw a human heart and label as many parts of the heart that you know.



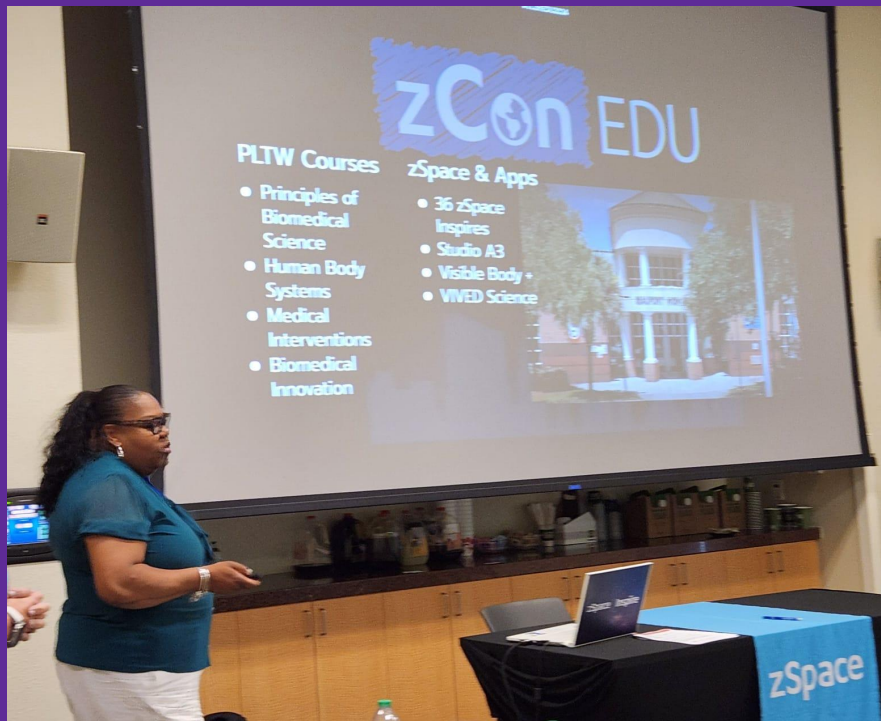
- 2) On your zSpace, open zCentral (rainbow Z on the desktop). Use launch code AP88 to launch the demo app. Using the round white button on the stylus, grab the heart model and drop it into the blue dome. Explore the heart, including inside the heart.

Using your new knowledge, draw the human heart again including as many labels as you can.

~~Aorta, left Atrium, Right Atrium, Inferior vena cava, Superior vena cava~~  
~~Left ventricle, right ventricle, pulmonary artery, pulmonary veins~~



- 3) On the zSpace, using launch code A573, complete the Heart Attack lesson.



# Engage for the Future

WE ARE  
TEACHERS

Free classroom resources,  
inspiration, and support.

Classroom Ideas

TECHNOLOGY

# The 11 Coolest Finds We Spotted at ISTE Live 24, the Biggest Teacher Tech Conference

Minds blown. 🤖

Whew! This last week has been such a whirlwind, and we can't wait to tell you about it. We were lucky enough to exhibit at ISTE Live 24 in Denver, the biggest educational technology conference in the United States. We had so much fun meeting so many of you, handing out posters, tote bags, and T-shirts, and even getting down on the dance floor at the Vivicity '90s party! But the best part was definitely scoping out all of the amazing new tools headed to classrooms this fall. Here are a few favorites you *need* to know about.

## 1. zSpace AR/VR Learning Experiences



zSpace

zSpace offers a tabletop virtual reality program that truly blew our minds. Using a zSpace computer and stylus, students can manipulate 3D objects right in front of them, including planets, shapes, and parts of the human body. It's hard to describe how amazing this technology is in person, so we recommend [watching this short video](#) for an overview.

zSpace has software for many different grade levels and curriculum areas, including STEM and Career and Technical Education (CTE).

# University of Wisconsin - Green Bay

**Engaging** learners  
of all ages

## First Aid and Choking Training



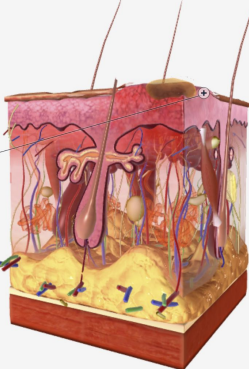

### Facilitator Guide

Developed by:

Wisconsin Community-Based Care and Treatment Training Registry  
University of Wisconsin-Green Bay

BURNS PG 78-82  
Scenario  
4 OF 4

Jane is one of the chefs at Bayview Living. She works hard providing the residents with meals that they enjoy. At lunch, Jane gets busy and distracted. Jane grabs a pan off of the stove, but forgets to first grab a potholder, grabbing the pan barehanded. She quickly drops the pan but she has already burned herself. As a bystander, what first aid steps should you take? How do you identify the degree of burn? Discuss as a group.



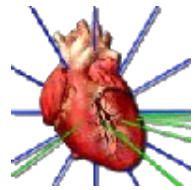
powered by  
BIODIGITAL



# zSpace Learning Station

+

# Apps



# Sheena Shoemaker

[sshoemaker@zspace.com](mailto:sshoemaker@zspace.com)



Do you have any questions?  
Find more info at [zSpace.com](https://www.zspace.com)