

# STEM LESSON PLAN

Date: 6/26/18

Teachers Names: Abby Helt, Morgan McCabe, Jessica Lee

Subject/STEM Class: CSI

Class Start/End Times:

Cooperating Teacher: Mrs. Spiess

Classroom Building & Room Number:

Bluemont 112

Lesson Title: DNA Lab

Approximate Time Length: ~15 minutes

KCCR Standard	4-LS1-1. Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction. MS-LS4. (1-6) Biological Evolution: Unity and Diversity
Lesson Objective (Bloom's Level)	SWBAT demonstrate knowledge on how to extract and view DNA.
Essential Question(s)	How is DNA related to CSI? What do we use it for? Does everyone have the same DNA?
New & Familiar Vocabulary	DNA- deoxyribonucleic acid
Assessment/Criteria- (what evidence show that students met the objective?)	Students will extract their own DNA using the materials provided and prior knowledge.
Materials Technology Resources (include any links) Setting (Classroom, grouping, etc.)	Clear cups, Dixie cups, water, salt, measuring cups, soap, popsicle sticks, food coloring, isopropyl alcohol, DNA hand out, PowerPoint, projector, screen. Large group classroom, individual experiments

Lesson Activities			
	Est. Time of Task	write out detailed lesson procedures. Be sure to include 4-5 important questions you will ask during the lesson and the expected student responses. Your plan should be detailed enough for another teacher to teach it without having to ask you any questions. Numbering and/or bullets are encouraged.	
		What will you say? Name the strategies you will use. What questions will you ask?	What will students do? Must have a variety of engagement strategies.
Beginning Engage	3 min.	T1 will begin whole group lesson by introducing students to the DNA powerpoint. Assess prior knowledge by asking students questions about DNA. "WHAT DO YOU KNOW ABOUT DNA?" Begin power point on DNA. Ask questions to students along the way. "HOW DOES DNA RELATE TO CSI?" T2 and T3 will get ready clear cups with alcohol and food coloring; pass out cups with saltwater, popsicle sticks.	Students will listen and follow along with PowerPoint. Students will fill in notes on worksheet. Students will answer and discuss questions asked.

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