JSD 3D Learning Activity Template

Job ob Learning Activity reinplate		
Grade: 6th	Title:	
	Patterns Across Multiple Ecosyste	ms
Utah Science with Engineering Education Standard (SEEd): 6.4.2		
Construct an explanation that predicts patterns of interactions among organisms across multiple ecosystems.		
Emphasize consistent interactions in different environments, such as competition, predation, and mutualism.		
Key crosscutting concept(s) (CCC): Cause and Effect, System Models, Stability and Change		
Key science and engineering practice(s) (SEP): Analyzing and Interpreting Data, Obtaining, Evaluating and		
Communicating Information.		
Materials: 1 computer to 2 students, Color Pencils, Note Cards, Typing Paper, 1 piece of really long yarn or		
string and a set of 30 notecards with pictures and names of organisms (both animals and plants) from		
jungle ecosystem.		
Time: 2 hours		
Teacher background, key content information and hints: Relationships among organisms		
Prior knowledge that students need: Previous Lesson		
Learning Activity Plan		
These three aspects of a lesson should be identified in your learning activity.		
Cathorina: (Obtain Information Ack	Pageoning: (Evaluate Information Analyza	Communicating: (Communicato
Questions/Define Problems. Plan & Carry	Data. Use Mathematics/Computational	Information. Argue from Evidence (written
Out Investigations, Use Models to Gather	Thinking, Construct Explanations/Solve	& oral), Use Models to Communicate).
Data and Information, Use	Problems, Develop Arguments from Evidence,	
Mathematics/Computational Thinking.)	Use Models to Predict & Develop Evidence.)	

Phenomenon: Show this set of graphs and ask what does each graph show and how are they related. Record the answers on an anchor chart.

Learning Activity:

Gathering:

Pass out 1 notecard to each person in the class and answer any questions students may have about each organism. Ask how these organisms are related? What ecosystem they are a part of and how do you know?

Allow students 10 minutes to research the organisms that is on their notecards.

Reasoning and Communicating:

Discuss what would happen if one organism were to experience local extinction (how it would impact the rest of the food web... stress the trickle-down effect to other organisms and the impact in other populations).

Gathering:

Wolves in Yellowstone Start at 20 second (1-20 is about the big bang)

https://www.youtube.com/watch?v=5Iddy0CVILg

Communicating:

Revisit the anchor chart from beginning of the lesson and review the answers that were given and add any new information and connections that students have discovered

Assessment of student learning

Participation and depth of answers on wolves in Yellowstone graphs (final question). Participation in food web activity.

Introduction of Wolves in Yellowstone in 1992

- Compare the graph of the introduction of the wolves (A) to the other graphs.
- Write down what happened in each graph compared to the graph of the wolves.
- Draw a conclusion of why you think each graph changed.

