

Teacher: CORE STEM 7

Year: 2017-18

Month: 1st and 2nd Marking

Periods 3rd and 4th

Course: STEM

Marking Periods

A Performance Task: Aquatic Designers and Horse Ranch

Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
g How is an aquarium constructed?	List and explain what needs to be included in the construction of an aquarium.	List and explain what needs to be included in the construction of an aquarium.				Internet	
s What aquatic animals are in an aquarium?	List and explain what aquatic animals should be included.						
							Standards
p How is an aquarium constructed?	List and explain what needs to be included in the construction of an aquarium.	Students will answer questions as to what needs to be included in the construction of the aquarium.	Linnaeus classification, phyla			Word	
t What aquatic animals are in an aquarium?	List and explain what needs to be included in the construction of an aquarium.	Students will answer questions as to what needs to be included in the construction of the aquarium.				Excel	
		Students will research the Linnaeus Classification system and classify marine animals into the system focusing on phyla.					
		Students will choose on marine animal and make a poster focusing on the Classification.					
Essential Questions	Content	Knowledge and Skills	Vocabulary	Assessments	Lessons	Resources	Standards
t How is an aquarium constructed? How can I use technology to make a 3D drawing?	Learn Sketchup8	Students will design a food web using the marine animals that they researched using Smart Art in Word.	push/pull tool, offset tool, lines, arcs, etc.			Sketchup8	

b
e

r

Students research 3 aquariums. Show how to design on Sketchup8 stressing what goes into an aquarium.

N What aquatic animals are in an aquarium?

Learn Word Smart Art

Word

o

v How is an aquarium constructed? How can I use technology to represent science?

Learn Power Point

Students put together a final presentation of all their work into a Power Point. Students are to add transitions and animations to their Power Point.

animation, transition

Power Point

e

Students will design a brochure highlighting opening day of their Aquarium.

Word

m
b
e
r

D What aquatic animals are in an aquarium?

e

c Why do people plan?

Set up and use an excel sheet

Students watch snips of Westerns and desicuss common themes. Students watch video of a horse ranch that supplies horses for movies.

excel, formula

Excel

e How can we use numbers, mathematical measures, and graphic representations to solve real world problems?

Students create their horse ranch with a logo. Students create an excel sheet for a movie using the function tools

m How are economic decisions affected by geography?

Students apply the format and formulas for excel and make a business plan to highlight their ranch.

b
e
r

J
a

n Why do people plan?

Design a game.

Students design a game using gamemaker. sprites, objects

Gamemaker

u How can we use numbers,
mathematical measures, and
graphic representations to solve
real world problems?

Students design a poster of their Western
Movie using Gimp.

Word

a How are economic decisions
affected by geography?

Gimp

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F

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b

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a

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y