Planning the inquiry

1. What is our purpose?	Class/grade: 3rd Age group: 8-9	
To inquire into the following:	School: Briscoe Elementary School code: 924366	
 Transdisciplinary theme: How the World Works An inquiry into the natural world and its laws; the interaction 	Title: Systems	
between the natural world (physical and biological) and human society; how humans use their understanding of scientific principles; the impact of scientific and technological advances on society and on the environment.	Teacher(s): S. Christal, A. Franco, J. Mata, C. Rodriguez	
	Date: 9-25-2017	
- Central idea :	Proposed duration: number of hours over 6 weeks	
 Interdependence is necessary for systems to function. 	2. What do we want to learn?	
	What are the key concepts (form, function, causation, change, connection, perspective, responsibility, reflection) to be emphasized within this inquiry?	
summative assessment task(s):	Function and Connection	
What are the possible ways of assessing students' understanding of the central idea? What evidence, including student-initiated actions, will we look for?	What lines of inquiry will define the scope of the inquiry into the central idea?	
	Function - Why do communities create a government?	
Summatives PSA	(To help meet their needs, security, education, communication and transportation systems, and recreational opportunities).	
Formative- District CFA	How do ecosystems function?	
Students will present their understanding of the unit by selecting a final product from the product list.	(Interaction among living and nonliving and the impact of environmental changes)	
Their expectations are:	Connection - What changes do organisms and their offspring go through during their lifetime?	
 Student writes a reflection piece in response to the central idea: Interdependence is necessary for systems to function. 	(Organism go through a series of predictable changes in their lives which repeats as a	
-Students write the central idea -	cycle with their offspring).	
What does this mean?		
How do you know that's true?	What teacher questions/provocations will drive these inquiries? Function -	
Pick a system and explain how it works?		
Are you part of a system? Explain your function in that system?	 How do communities meet their needs? DOK1; 3.2B-C Compare and contrast how the local, state, and national governments are structured and function. (SS);DOK2; 3.9A-D; Explain what it means to be civically responsible. (SS); 3.12A; 	

	 Prove or disprove if someone is being civically minded. Provide justifications for your response or perspective. DOK4 3.11A Analyze a problematic society, and develop a solution based on your knowledge of civic responsibility. Justify your solution with evidence of how and why your solution would work. DOK 4 3.11C Create a two step word problem that uses the relationship between addition and
	 subtraction. DOK4 3.1A, 3.4A Using the relationship between addition and subtraction, show at least three different ways to find the solution. DOK4 (3.4A) Analyze a mathematical representation (including arrays, area model, equal groups, properties of operation) and formulate a strategic solution and justify your of thinking. DOK 3 3.1B, 3.4D, 3.4E
C	 In what ways do organisms change as they go through their life cycles? (S) DOK 2 3.2B How do living things interact? 3.9A DOK 2 How do living things get energy 3.9B DOK 1 Describe and construct a model (illustration) sequencing the changes organisms go through in their life cycles.(S) DOK 2 (3.10C) Compare and contrast the stages of plant and animal life cycles. DOK 2 (3.10C) Identify the missing plant or animal life cycle. DOK 1 (3.10C) Explain and provided justifications of the functions that allow plants and animals to survive in their specified environment. DOK 2 (3.10B)

3. How might we know what we have learned?	4. How best might we learn?	
This column should be used in conjunction with "How best might we learn?"	What are the learning experiences suggested by the teacher and/or students to encourage the	
What are the possible ways of assessing students' prior knowledge and skills? What evidence	students to engage with the inquiries and address the driving questions?	
will we look for?	1. To create a project that demonstrates the correct order of the lifecycle and	
KWL: First and Final Thoughts Strategy.	explanations of each stage. (2. Analyze a mathematical representation (including arrays, area model, equal	
SURVEY: How Certain Are You Strategy.	groups, properties of operation) and formulate a strategic solution and justify your	
	thinking. (Thinkers)	
http://www.brilliant-insane.com/2015/04/10-creative-pre-assessment-ideas-you-	 Mock jury- Go to trail about how an ecosystem is being to be destroyed and endangered species populations are being affected by the development-Link is a 	
may-not-know.html	resource for how to implement trial in	
	classroom-https://www.kidsdiscover.com/teacherresources/mock-trial/	
	http://busyteacher.org/11497-court-classroom-mock-trial-get-students-talking.html or http://www.justiceeducation.ca/programs/mock-trial-program (Reflective, Enthusiasm)	
	4. Mock trial timeline-events leading up to the event, then event and predicted future	
What are the possible ways of assessing student learning in the context of the lines of inquiry?	events because of the event. (Reflective)	
What evidence will we look for?	5. Mock election for class presidents (Inquirer, Integrity, Confidence)	
Journal Entries - Across subject areas showing student understanding	6. Interactive notebook-food changes and life cycles (self-management)7. Main idea round robin using the ecosystem passages (Communicator)	
Exit Tickets - Varied	8. Text feature mapping using Nat Geo articles (Thinkers)	
Response boards - Students demonstrate understanding of systems and component functions within a system across subject areas.	 Text feature collage using magazines- students will have to explain the function of the text feature and what info is learned from it. (Creative) 	
Formative assessments-see Eduphoria	10. Who would win debate- students research animals and debate which would win in a	
WEEK 2 FORMATIVE	fight. (Enthusiasm) 11. Biome 3D cubes using research (Thinker)	
Reading TEKS :		
RCP: <u>3.Fig19A</u> , <u>3.Fig19B</u> , <u>3.Fig19C</u> , <u>3.Fig19D</u> , <u>3.Fig19E</u>	What opportunities will occur for transdisciplinary skills development and for the development of the attributes of the learner profile?	
CONTENT: <u>3.13D</u> : Text Features		
WEEK 4 FORMATIVE	Transdisciplinary Skills	
RCP: <u>3.Fig19A</u> , <u>3.Fig19B , 3.Fig19C</u> , <u>3.Fig19D , 3.Fig19E</u>	Self-management	
CONTENT	Thinking	
WEEK 6 SUMMATIVE	Learner Profile	
RESEARCH <u>3.25A</u> , <u>3.25B</u> ,	Thinkers	
WRITING PROCESS: <u>3.17A</u> , <u>3.17B</u> , <u>3.17C</u> , <u>3.17D</u> , <u>3.17E</u> , <u>3.3A</u> , ,	Attitude: Creativity	
<u>3.30A</u> ,	Inquirer	
<u>3.2A</u> , <u>3.2B</u> , <u>3.2C</u> , <u>3.11A</u> , <u>3.20C</u> , <u>3.4A</u> , <u>3.4B</u> , <u>3.4C</u> , <u>3.4D</u> , <u>3.4E</u>	Attitude: Curiosity	

Process: <u>3.2A</u> , <u>3.2B</u> , <u>3.2C</u> , <u>3.4B</u> , <u>3.12A</u> , <u>3.13A</u> , <u>3.13B</u> , <u>3.3A</u> , <u>3.11A</u>	Reflective Attitude: Independence and Confidence	
Summative assessments-box 1		
New Summative project- Students create a Briscoe Geographic using research and their knowledge of text structures and text features.		
5. What resources need to be gathered?		
What people, places, audio-visual materials, related literature, music, art, compute	r software, etc, will be available?	
Powerpoints, social studies texts, science texts, science lab, classroom presentation	ons, real life insects and plants, community leaders.	
How will the classroom environment, local environment, and/or the community be used to facilitate the inquiry?		
Field trips (S.M.A.R.T & SAMA), visitors, outdoors for observing life cycles and/or chains (walk to the river).		
Mock trial script-http://lawlessons.ca/teaching-resources/mock-trial-scripts		
Mock Trial resource- https://njsbf.org/school-based-programs/mock-trial/law-fair-competition-for-grades-3-to-6/		
Ecosystem books for student research and access to iPads for internet research		
Use magazine template have students to draft out their outline their ideas		

6. To what extent did we achieve our purpose?

Assess the outcome of the inquiry by providing evidence of students' understanding of the central idea. The reflections of all teachers involved in the planning and teaching of the inquiry should be included.

/ Students understand that there is a interdependence within an ecosystem and that all the parts have to function together for it to work.

/ Understood that there is an interdependence of living and nonliving with in ecosystems.

/ Students understood that there is an interdependence between their civic duty to protect their environment and how their actions affect their environment.

How you could improve on the assessment task(s) so that you would have a more accurate picture of each student's understanding of the central idea.

/@/ added rubrics as a way to assess

/@/ write reflections on their understanding of summative projects, and include what they thought of the project, what they would change and if it was enjoyable.

What was the evidence that connections were made between the central idea and the transdisciplinary theme?

(*) The evidence is the Public Service Announcement where the students researched an ecosystem, the negative impacts, characteristics, problem and solution, and civic duties to protect our environment. Students created a PSA and presented their research.

7. To what extent did we include the elements of the PYP?

What were the learning experiences that enabled students to:

• develop an understanding of the concepts identified in "What do we want to learn?"

& We connected all TEKs to the key concepts across subjects.

• demonstrate the learning and application of particular transdisciplinary skills?

& Group collaborate projects that allowed students to utilize their self-management and thinking skills.

• develop particular attributes of the learner profile and/or attitudes? In each case, explain your selection.

{!} Collaborative group projects allowed students opportunities to display attributes of learner profiles and attitudes. While working on their collaborative PSA and Briscoe Geographic, students exercised their creativity, curiosity, inquisitiveness and independence.

8. What student-initiated inquiries arose from the learning?	9. Teacher notes
Record a range of student-initiated inquiries and student questions and highlight any that were incorporated into the teaching and learning. :\$: What is a swamp? :\$: I wonder if we could make people stop driving because that is hurting our environment. :\$: student generated research questions :\$ What is the difference between a Deciduous forest and Taiga Forest?	/??/ Mock trial was moved to PYP planner "How We Express Ourselves." The trial integrates better in this unit because drama is introduced and it will be executed accordingly.
At this point teachers should go back to box 2 "What do we want to learn" and <mark>highlight</mark> <mark>the teacher questions/provocations</mark> that were most effective in driving the inquiries.	
What student-initiated actions arose from the learning?	
Record student-initiated actions taken by individuals or groups showing their ability to reflect, to choose and to act.	
:\$: Topics for the Public Service Announcement	
:\$: applying the profiles to read alouds.	