Requirements:

- Unit Overview
 - o Objectives:
 - At least three to five unit objectives
 - Each based on a different level of Bloom's Taxonomy
 - o **Identify**:
 - Indiana standards
 - Grade level
 - Source citation (if applicable)
 - o Table of Alignments
- Pre-assessment
 - Assessment of prior knowledge
 - Assessment of student interest
- Objective Summative/Unit Test
 - o A complete and formatted to print unit test with:
 - Selected response items
 - Constructed response items
- Performance Assessment
 - Full description of the project (goal, student roles, final product, etc.)
 including any materials used
 - o Rubric
- * Reflection and Peer Review (only submitted for final review, no draft necessary)
 - o 1-2 paragraphs
 - o What did you learn? What do you want to remember from this project?

Unit Title: Earth's Physical Systems

Established Learning Objectives:

- *Identify* and *describe* physical features of local community including home, school, and neighborhood.
 - o Aligns with First Grade Social Studies Standard 1.3.4
- *Define* and *explain* weather, temperature, climate, precipitation, and cloud coverage.
 - o Aligns with First Grade Social Studies Standard 1.3.5
- Explain characteristics of the four seasons: summer, fall, winter, spring.
 - o Aligns with First Grade Social Studies Standard 1.3.6
- *Explain* weather patterns in the community, including temperature, precipitation, cloud coverage, and the amount of sunlight during the different seasons of the year.
 - o Aligns with First Grade Social Studies Standard 1.3.5
 - o Aligns with Second Grade Science Standard 2.2.4
- *Explain* the effects of seasonal change on plants, animals, and people.
 - Aligns with First Grade Social Studies Standard 1.3.6

Established State Standards:

First Grade Social Studies

- 1.3.4 Identify and describe physical features* of the local community including home, school and neighborhood.
 - *Physical Features: geographic features that occur in nature, such as land and water forms, natural vegetation and wildlife
- 1.3.5 Summarize weather patterns in the community, including temperature, precipitation, cloud coverage, and the amount of sunlight during the different seasons of the year.
- 1.3.6 Explain the effect of seasonal change on plants, animals, and people.

Second Grade Science

• 2.2.4 Ask questions about charted observations and graphed data. Identify the day-to-day patterns and cycles of weather. Understand seasonal time scales in terms of temperature and amounts of rainfall and snowfall.

	Table of Alignment	
Objective	Standard	Test Item(s)/Rubric Rows
Identify and describe physical features of local community including home, school, and neighborhood.	First Grade Social Studies Standard 1.3.4	Pre-Test Items: 10 Post-Test Items: 3, 8-12
Define and explain weather, temperature, climate, precipitation, and cloud coverage.	First Grade Social Studies Standard 1.3.5	Pre-Test Items: 3-8 Post-Test Items: 4-7, 13-14, 21 Performance Assessment Rubric Row: 3
Explain characteristics of the four seasons: summer, fall, winter, spring.	First Grade Social Studies Standard 1.3.6	Pre-Test Items: 1-2 Post-Test Items: 2, 15 Performance Assessmen Rubric Row: 1
Explain weather patterns in the community, including temperature, precipitation, cloud cover, and the amount of sunlight during the different seasons of the year.	First Grade Social Studies Standard 1.3.5 Second Grade Science Standard 2.2.4	Pre-Test Items: 9 Post-Test Items: 1, 16, 20 21 Performance Assessmen Rubric Row: 3
Explain the effects of seasonal change on plants, animals, and people.	First Grade Social Studies Standard 1.3.6	Pre-Test Items: 11-14 Post-Test Items: 17-19 Performance Assessmen Rubric Row: 2

Pre-assessment

This pre-assessment is designed to help me organize our unit on Earth's Physical

Systems as hones	s. I am asking you to take your timestly as possible. This pre-assessmen	e, read each question carefully, and answer nt is NOT going to be graded, so answering a you. You are NOT expected to know every
		Name:
		Date:
		correct answer for each question. Each
sunlight? a. Ye b. No	S.	ns of the year receive the same amount of
2. What are a. b. c. d.	the seasons in a year? Summer, Fall, Winter, Spring Summer, Harvest, Winter, Rainy Sunny, Harvest, Winter, Spring Sunny, Fall, Winter, Rainy	
	: Match the terms on the left with th letter in the blank. Each letter will o	ne correct definition on the right by putting only be used once.
	_ 3. Clouds	a. water falling in drops from vapor condensed in the atmosphere
	4. Precipitation	b. large collection of very tiny droplets of water or ice crystals
	_ 5. Rain	c. a deposit on the earth of hail, mist, rain,

sleet, or snow

Design Topic: Geographical Features Subjects: Science, Social Studies, Geography

Concepts: Weather, Climate, Temperature, Seasons

Sh	ort	An	swer

Directions: In incomplete sentences, write your definition for each word on the lines provided.
6. Climate:
7. Weather:
8. Temperature:
Essay Directions: In paragraph form, answer the following question on the lines provided.
9. Imagine you are in your favorite location in the world. In 3 to 6 complete sentences, tell me the name of your favorite location, and explain its weather and climate during the month of January.

Essay Scoring Key

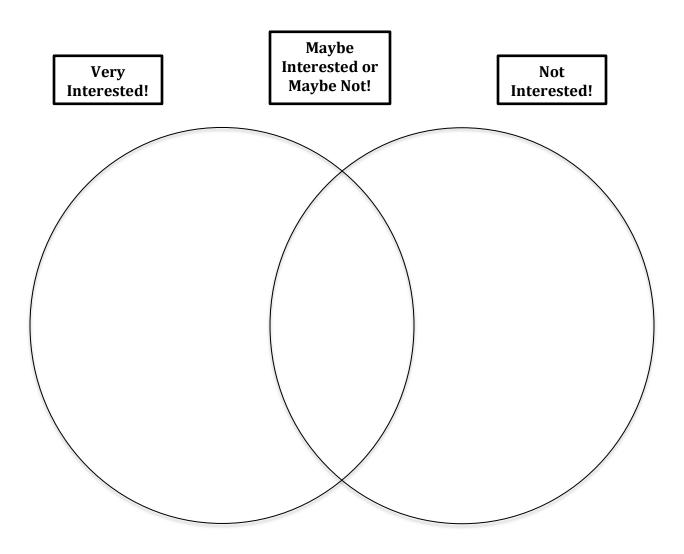
No	Needs	Adequate	Quality
Answer	Improvement	3 points	5 points
0 points	1 point		
Did not	*Answer is partial,	*Key points are	*Answers are
answer	incomplete, or	addressed in 3 to 6	accurate and
question.		_	complete. Key
	-		points are stated
	•	* *	and supported in 3
	•		to 6 complete
			sentences.
		weather of location.	-Accurately explains
	-		both the climate and
			weather of location.
	-		
D. J		*D'l	*D'1
			*Displays one or
0.110 01			zero errors in
question.			spelling,
	•	·	punctuation,
			grammar, and sentence structure.
			-One error
			maximum for all
			conventions
	combineu.		combined.
		combined.	combined.
	Answer 0 points Did not answer	Answer 0 points Did not answer question. Did not answer question. Improvement 1 point *Answer is partial, incomplete, or inaccurate. Key points are unclear. Question not adequately answered. -Does not write in complete sentences. -Does not include at least 3 sentences. -Does not accurately explain climate and weather of location. Did not answer more errors in	Answer 0 points 1 point 2 points are addressed in 3 to 6 complete sentences, but are not well supported. -Accurately explains either the climate or weather of location. -Poes not accurately explains either the climate or weather of location. *Did not answer points are addressed in 3 to 6 complete sentences, but are not well supported. -Accurately explains either the climate or weather of location. *Displays four or point point 2 point 2 point 3 to 6 complete sentences, but are not well supported. -Accurately explains either the climate or weather of location. *Displays two or three point 2 point 3 to 6 complete sentences and 2 point 3 to 6 complete sentences, but are not well supported. -Accurately explains either the climate or weather of location. *Displays four or point 3 to 6 complete sentences and 2 point 3 to 6 complete sentences and 3 to 6 complete sentences. -Does not weather of location. *Displays four or point 3 to 6 complete sentences and 2 point 3 to 6 complete sentences and 3 to 6 complete sentences and 2 point

Venn Diagram

Directions: For each physical feature of the community, write it in the appropriate section of the Venn Diagram.

10. How interested are you in learning about this physical feature of the environment?

a. Mountainsb. Desertsc. Volcanoesd. Tornadoe. Earthquakef. Flood



Design Topic: Geographical Features Rose 8

Subjects: Science, Social Studies, Geography Concepts: Weather, Climate, Temperature, Seasons

Fill-in-the-Blank

Directions: \	Write	the correct	answer	in each	of the	blanks	provided.
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11. The majority of plants in our community _____ (die , survive) during Winter.

12. During Summer, we usually turn on the _____ (air, heat).

13. In Fall, it is fun to jump in a pile of _____ (snow, leaves).

14. When it is Spring, the _____ (animals , flowers) blossom.

_____ 6. Temperature

_____ 7. Precipitation

Concepts: W	eather, Climate, Temperature, Seasons	
	Un	iit Test
		Name:
		Date:
Geograph	y: Earth's Physical Systems	
ucograpii	y. Lai tii 3 i fiysicai Systems	
Directions	Choice (Selected response, 3 points: From the given choices, circle to contains only one correct answer.	ts: 1 point each) he correct answer for each question. Each
1. In the st	ate of Indiana, which season typic	cally receives the most amount of sunlight?
a.	Winter	
b.	Fall	
c.	Summer	
d.	Spring	
2. How ma	ny different seasons are in a year	?
a.	12	
b.	2	
C.	5	
d.	4	
3. Which is	an example of a physical feature	of the environment?
a.	Pollution	
b.	Tornado	
c.	Wind	
d.	Gravity	
Directions	(Selected response, 4 points: 1 posts: Match the terms on the left with letter in the blank. Each letter w	h the correct definition on the right by writing
	4. Climate	a. degree of hotness or coldness that can be measured using a thermometer, measured in degrees in Fahrenheit or Celsius
	5. Weather	b. average weather conditions of a particular place over a long period of

time

on the earth

particular place

c. deposit of hail, mist, rain, sleet, or snow

d. the day-to-day conditions of a

Concepts: Weather, Climate, Temperature, Seasons

Matching (Selected response, 5 points: 1 po Directions: Match the terms on the left with the correct letter in the blank. Each letter w	h the correct definition on the right by writing
8. Tornado	 a. shaking, rolling or sudden shock of the earth's surface, natural means of releasing stress
9. Mountain	 b. mountain that opens downward to a pool of molten rock below Earth's surface, pressure builds up and eruptions occur
10. Earthquake	c. violent rotating column of air extending from a thunderstorm to the ground, capable of tremendous destruction with wind speeds of up to 300 mph
11. Flood	d. a land mass that projects well above its surroundings, higher than a hill
12. Volcano	e. results from days of heavy rain and/or melting snows, when rivers rise and go over their banks
True/False (Binary choice, 3 points: 1 points Directions: Fill in the blanks by writing the	
13. Rain is water falling in drops	from vapor condensed in the atmosphere.
14. Clouds are air moving from a pressure.	n area of high pressure to an area of low

_____ 15. Summer, Fall, Winter, and Spring are the seasons in a year.

Fill-in-the-Blank (Constructed response, 4 points: 1 point each) **Directions:** Fill in the blanks by writing the correct answers. There are no two exact answers.

16. List two temperatures in degrees Fahrenheit that are warmer than 32 degrees Fahrenheit and			
17. In the season, we usually rake leaves into a pile.			
18. We receive the most snow accumulation in the season.			
19. During what season do we typically go swimming in pools?			
Short Answer (Constructed response, 4 points) Directions: In incomplete sentences, write your answer to the question on the lines provided.			
20. Picture yourself sitting outside on a fall afternoon. In bulleted points, list four characteristics (things you may see, feel, hear) about Fall. Your answer should include weather patterns, such as precipitation, temperature, rainfall; and the environment.			

Subjects: Science, Social Studies, Geography Concepts: Weather, Climate, Temperature, Seasons

Essav	(Constructed	resnonse	10	noints'	۱
LSSay	(Constructed	response	, 10	pomis	ı

Directions: In paragraph form, answer the following question(s) on the lines provided.

21. In 3 to 6 complete sentences, explain the difference between weather and climate. Then, compare the weather and climate of a typical summer day in Indiana to a typical winter day in Indiana.			

Essay Scoring Rubric

	No Answer	Needs Improvement 1 point	Adequate 3 points	Quality 5 points
Content 5 points (Degree to which content is discussed in detail)	O points Did not answer question.	*Answer is partial, incomplete, or inaccurate. Key points are unclear. Question not adequately answeredDoes not write in complete sentencesDoes not include at least 3 sentencesDoes not accurately explain difference between climate and	*Key points are addressed in 3 to 6 complete sentences, but are not well supportedExplains difference between climate and weather, but does not accurately compare weather and climate of a summer and winter day in Indiana.	*Answers are accurate and complete. Key points are stated and supported in 3 to 6 complete sentencesExplains difference between climate and weather, and accurately compares weather and climate of a summer and winter day in
Writing Conventions 5 points (Degree to which spelling, punctuation, grammar, and complete sentences are used)	Did not answer question.	weather. *Displays four or more errors in spelling, punctuation, grammar, and sentence structure. -Four errors minimum for all conventions combined.	*Displays two or three errors in spelling, punctuation, grammar, and sentence structureTwo errors minimum and three errors maximum for all conventions combined.	*Displays one or zero errors in spelling, punctuation, grammar, and sentence structureOne error maximum for all conventions combined.

Sources:

http://www.weatherwizkids.com/weather-volcano.htm https://www.youtube.com/watch?v=D6yQ8-M8rmU

Performance Assessment

Directions: For this project, you will research one of the four seasons (Summer, Fall, Winter, Spring). The class will be divided up into four groups - one for each season. Each group is to work together and research the main characteristics, activities, weather patterns, etc. for their assigned season. At the end of the project, your group will present your season and its information to the rest of the class.

Research of each season should include:

- Characteristics of season
- Common activities/events of season
- Weather patterns of season (temperature, rainfall, cloud coverage, etc.)

After your group conducts research, you may ask yourself the following:

- How are we going to present our research to the class?
 - o Poster board, Video, PowerPoint
- Who is going to talk about the different components of the research?
 - o Talking should be evenly distributed among group members

Note: Students will have access to resources in order to conduct their research. Students may choose to utilize the classroom and library computers, as well books located in the school library.

Group 1: Summer

-Students:

- Regan Rose
- Marshall Bledsoe
- Lindi Thomas
- Elizabeth Silvey
- Matthew Stuve

Group 2: Fall

-Students:

- Brooke Reeder
- Abigail Christianson
- Harlee Williams
- Katharine Otoloski
- Jenna Furgeson

Design Topic: Geographical Features

Subjects: Science, Social Studies, Geography
Concorts: Weather Climate Temperature Season

Concepts: Weather, Climate, Temperature, Seasons

Group 3: Winter

-Students:

- Grant Cox
- Chase Bly
- Taylor McKee
- David Jones
- Jesse Nelson

Group 4: Spring

-Students:

- Cheyenne Stant
- Lisa Earls
- Carlos Bogue
- Justin Ashby
- Lucas Snider

Note: This performance assessment is designed to address real life skills that relate directly to informative speaking, conducting research, and group cooperation and collaboration.

Performance Assessment Scoring Rubric

	Excellent	Developing	Needs	Row
	(5 points)	(3 points)	Improvement	Total
	(° F °)	C F : sy	(1 point)	(30
			C P · · · ·	points
				possible)
Discussion of	All major	The majority of	Few to zero	
characteristics of	characteristics are	characteristics are	characteristics are	
season	accurately and	accurately and	discussed,	
	thoroughly discussed	thoroughly discussed,	characteristics are	
		few key characteristics	inaccurate and not	
		missing	thorough	
Discussion of	All major	The majority of	Few to zero	
common	activities/events are	activities/events are	activities/events are	
activities/events	accurately and	accurately and	discussed,	
of season	thoroughly discussed	thoroughly discussed,	activities/events are	
		few key activities/events	inaccurate and not	
		missing	thorough	
Discussion of	All major weather	The majority of weather	Few to zero weather	
weather	patterns are	patterns are accurately	patterns are	
patterns of	accurately and	and thoroughly	discussed, weather	
season	thoroughly discussed	discussed, few key	patterns are	
(temperature,		weather patterns	inaccurate and not	
rainfall, cloud		missing	thorough	
coverage, etc.)				
Means and	Effective	Acceptable	Ineffective	
format of	implementation of	implementation of	implementation of	
presentations	presentation, used an	presentation, used an	presentation, did	
presentations	appropriate delivery	acceptable delivery	not use an	
	method	method	acceptable delivery	
	mounou	meenou	method	
Presentation	All three are	Only two of three are	Zero are	
skills	appropriate and	appropriate and	appropriate and	
	effective: speaking	effective: speaking voice,	effective: speaking	
	voice, posture, and	posture, or eye contact	voice, posture, and	
	eye contact		eye contact	
Group	Student fully	Student either partially	Student minimally	
Contribution and	participated and	participated or pulled	participated and	
Collaboration	pulled adequate	partial weight in	pulled inadequate	
	weight in developing	developing the project	weight in	
	the project		developing the	
			project	
Rubric Total =				out of
				<u>30</u>

Reflection

I have learned a great amount of information relating to assessment and preplanning instruction by completing this Assessment Unit. A significant amount of time and effort was required in order for me to successfully complete the multiple components of this project. However, as a teacher, this type of work is what I will be doing each day in my career, so it is important that I learn and understand the skills necessary to successfully assess and plan instruction. I found it quite interesting, yet challenging, to discover material and assessments that related to the specific standards and learning objectives I selected. It is my job to provide my students with instruction that maximizes their learning capabilities and enhances their overall educational journey, and I believe that through effective and appropriate unit planning, I will have increased opportunities of meeting these needs of my students. When I have my own classroom in the future, I will need to remember how much time and effort was required in order to successfully create an entire unit assessment.