

Name _____

Date _____



The Reasons for the Seasons *Higher Level Thinking Assessment*



Directions: Complete 30 points in choices below. The due date is _____ .

Knowledge (5 points each)

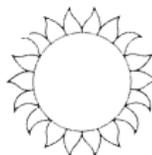
- Tell what causes day and night.
- Tell what causes the sun to appear to rise in the east and set in the west.
- Tell two or more ways that our solar system a counterclockwise system.

Comprehension (10 points)

- Explain two important reasons why Ohio has hot summers and cold winters.

Application (15 points)

- For the drawing below, name the season for Ohio. Give two reasons for the season.



Analysis (20 points)

- Do shadows stay the same length throughout a day? Create your own test, Thinksheet and Data Sheet to investigate this question. Your Data Sheet should include five or more observations. On your investigation day, observations should be made in the morning, afternoon, and evening.

Synthesis (25 points)

- Imagine that it is June 23rd. You are living in Tecka, Argentina. You have an e-mail pen pal who lives in Cincinnati, Ohio (USA). You decide to write to each other about the weather. Show your letters below. For each letter include the season, the amount of daylight (long day, short day, somewhere in between), a possible high and low temperature for the day, the kind of precipitation you are having, and any other creative information that will make your letters complete. Don't forget to use letter form (date, greeting, body, closing). HINT! Cincinnati is about as far above the Tropic of Cancer as Tecka is below the Tropic of Capricorn.

Evaluation (30 points)

- Do you think the seasons would be any different in Cincinnati if there was no tilt to the Earth? Explain your answer in a paragraph. Write at least five thoughts to support your answer based on your research and our learning from *The Reasons for the Seasons* inquiry. Complete a Main Ideas With Support prewrite sheet (You will need to put your last two ideas and support on the back.).

Name _____

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Main Ideas with Support Prewrite Sheet



Directions: Complete this sheet to prepare for paragraph writing. Each main idea sentence needs an additional support sentence to give more details.

Topic Sentence _____

1st Idea _____

1st Support _____

2nd Idea _____

2nd Support _____

3rd Idea _____

3rd Support _____

Conclusion Sentence _____

If you have more than three ideas, use additional paper!