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**Answer sheet**

Module 3, **Lesson** 1

Running hot and cold

Task 2: Observe annual world temperature patterns

**Q1)** Write three observations about the pattern of temperatures displayed on the map. Your observations should describe regions of the world, not specific countries or cities.

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Task 3: Label latitude zones

**Q2)** Complete the following table.

|  |  |  |  |
| --- | --- | --- | --- |
| **Zone** | **Typical temperature range (°C)** | **Typical city** | **Atypical cities** |
| Tropical |  |  |  |
| North Temperate |  |  |  |
| South Temperate |  |  |  |

**Q3)** Why do you think there aren’t any major cities in the North or South Polar Zones?

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**Q4)** How is the North Temperate Zone different from the South Temperate Zone?

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Task 4: Observe climate distribution

**Q5)** Complete the following table.

|  |  |
| --- | --- |
| **Zone(s)** | **Characteristic climate(s)** |
| Tropical |  |
| Temperate |  |
| Polar |  |

**Q6)** Which zone has the greatest number of climates? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q7)** Give an example of a city in each of the following climate zones:

Arid \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tropical Wet \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tropical Dry \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Humid Subtropical \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mediterranean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Marine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Humid Continental \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Subarctic \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Highland \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Task 5: Observe monthly temperature patterns in the Northern Hemisphere

**Q8)** Use the Monthly Temperature graphs you created to compare Miami and Boston and complete the table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **City** | **Coldest months** | **Lowest temperature (°C)** | **Hottest months** | **Highest temperature (°C)** | **Temperature range over 12 months (°C)** |
| Boston |  |  |  |  |  |
| Miami |  |  |  |  |  |

**Q9)** What is the name of the city? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q10)** How does its monthly temperature pattern differ from Boston’s?

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**Q11)** What is the name of the city? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q12)** How does its monthly temperature pattern differ from Miami’s?

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**Q13)** List the name of each of the cities for which you created Monthly Temperature graphs and complete the information in the table.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **City** | **Latitude** | **Coldest month(s)** | **Lowest temperature (°C)** | **Hottest month(s)** | **Highest temperature (°C)** | **Temperature range over 12 months** |
|  |  |  |  |  |  |  |
| Boston |  |  |  |  |  |  |
| Miami |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**Q14)** Based on the information displayed in the graph, the map, and the table in Q13, formulate a hypothesis about how the monthly temperature patterns change as latitude increases.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Task 6: Test your hypothesis

**Q15)** Complete the following table.

|  |  |
| --- | --- |
| **City** | **Latitude** |
| Stockholm |  |
|  |  |
|  |  |
|  |  |

**Q16)** Does the data for the cities you selected confirm or dispute your hypothesis in Q14?

Explain. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Task 7: Analyze temperature patterns in the Southern Hemisphere

**Q17)** Complete the following table.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **City** | **Latitude****(°)** | **Coldest month(s)** | **Lowest temperature (°C)** | **Hottest month(s)** | **Highest temperature (°C)** | **Temperature range over 12 months** |
| Darwin |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**Q18)** Compare the monthly temperature patterns in the Southern Hemisphere to those in the Northern Hemisphere.

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**Q19)** Formulate a hypothesis about the relationship between monthly temperature patterns and increases in latitude in the Southern Hemisphere. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Task 8: Test your hypothesis for the Southern Hemisphere

**Q20)** Complete the following table.

|  |  |
| --- | --- |
| **City** | **Latitude (°)** |
| Cape Town |  |
|  |  |
|  |  |
|  |  |

**Q21)** Does the data for the cities you selected confirm or dispute your hypothesis about how latitude affects monthly temperature patterns in the Southern Hemisphere?

Explain. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Task 9: Investigate the ocean’s influence on temperature

**Q22)** In which Canadian city would you experience the coldest winter temperatures?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q23)** In which Canadian city would you experience the warmest winter temperatures?

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**Q24)** Looking at the map, why do you think the warmest city has winter temperatures that are so much warmer than the others in terms of location?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Q25)** Complete the following table.

|  |  |
| --- | --- |
| **City** | **Latitude (°)** |
| London |  |
| Amsterdam |  |
| Berlin |  |
| Warsaw |  |
| Kiev |  |

**Q26)** What do these cities have in common in terms of their locations on Earth?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q27)** Which two cities have the mildest temperatures? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q28)** What happens to the winter temperatures as you move from London to Kiev?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q29)** Why do you think some cities have milder temperatures than the others?

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**Q30)** Based on your observations for Canada and Western Europe, formulate a hypothesis about the influence of proximity to the ocean (or distance from it) on patterns of temperature.

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Task 10: Investigate the impact of elevation on temperature patterns

**Q31)** Complete the following table.

|  |  |
| --- | --- |
| **City** | **Latitude (°)** |
| Kisangani |  |
| Libreville |  |
| Quito |  |
| Singapore |  |

**Q32)** What do these cities have in common in terms of their locations on Earth?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q33)** What temperature pattern do these four cities have in common?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Q34)** How is Quito different from the other three?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Q35)** Since all these cities are located on or very near the equator, what other factor could explain the difference in their temperature patterns?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Q36)** Analyze the selected records in the printed table in the instructions and complete the following table.

|  |  |
| --- | --- |
| **City** | **Elevation (meters)** |
| Kisangani |  |
| Libreville |  |
| Quito |  |
| Singapore |  |

**Q37)** Based on your observation of temperatures along the equator and the information in the table in Q36, formulate a hypothesis about the influence of elevation on patterns of temperature.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Task 11: Revisit your initial ideas

**Q38)** Rank the 13 cities from coldest to hottest according to their average January temperatures.

|  |  |
| --- | --- |
| 1.  | 8.  |
| 2.  | 9.  |
| 3.  | 10.  |
| 4.  | 11.  |
| 5.  | 12.  |
| 6.  | 13.  |
| 7.  |  |

**Q39)** Rank the 13 cities from hottest to coldest according to their average July temperatures.

|  |  |
| --- | --- |
| 1.  | 8.  |
| 2.  | 9.  |
| 3.  | 10.  |
| 4.  | 11.  |
| 5.  | 12.  |
| 6.  | 13.  |
| 7.  |  |

**Q40)** Put a check mark next to the answers in Q38 and Q39 that you predicted correctly.