**Middle school assessment**

Module 3, **Lesson** 1

Running hot and cold

1. Use the ArcMap map document and your answer sheet to complete the tables below. For each city, circle each factor that influences its temperature pattern.

|  |  |
| --- | --- |
| **Three hottest cities in July** | **Factor(s) that influence temperature patterns** |
|  | Latitude Proximity to ocean Elevation |
|  | Latitude Proximity to ocean Elevation |
|  | Latitude Proximity to ocean Elevation |
| **Three hottest cities in January** | **Factor(s) that influence temperature patterns** |
|  | Latitude Proximity to ocean Elevation |
|  | Latitude Proximity to ocean Elevation |
|  | Latitude Proximity to ocean Elevation |

2. Use the information from the lesson, the Global3 map document, and other resources such as an atlas to write an essay that compares monthly and annual temperature patterns typical of the Tropical Zone and the North and South Temperate zones. Your essay should provide example cities and data to support your conclusions.

Create a paper map or a GIS-generated map that illustrates the conclusions you make in your essay.

**High school assessment**

Module 3, **Lesson** 1

Running hot and cold

1. Use the ArcMap map document and your answer sheet to complete the tables below. For each city, circle each factor that influences its temperature pattern.

|  |  |
| --- | --- |
| **Three hottest cities in July** | **Factor(s) that influence temperature patterns** |
|  | Latitude Proximity to ocean Elevation |
|  | Latitude Proximity to ocean Elevation |
|  | Latitude Proximity to ocean Elevation |
| **Three hottest cities in January** | **Factor(s) that influence temperature patterns** |
|  | Latitude Proximity to ocean Elevation |
|  | Latitude Proximity to ocean Elevation |
|  | Latitude Proximity to ocean Elevation |

2. Use the information from the lesson, the Global3 map document, and other resources such as an atlas to write an essay that compares monthly and annual temperature patterns typical of the Tropical Zone and the North and South Temperate zones. Your essay should provide example cities and data to support your conclusions.

Create a GIS-generated map that illustrates the conclusions you make in your essay.