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| Explanation | Rubric Topics to Discuss | Explanation |
| Surface Features | Soil/Water | City A is right on the equator so it is covered with soil/water. Soil and Water absorb light which makes the temperature in City A warmer. When temperatures are warm, air becomes less dense it rises, condenses, and forms clouds and precipitation. The high amounts of precipitation will lead to high amounts of vegetation.  |
| Elevation | Sea Level | City A is at sea-level. At sea-level, there are more particles of air found closer to Earth. Since there are more particles of air, there are more collisions resulting in warmer surface temperatures. When temperatures are warm, air becomes less dense it rises, condenses, and forms clouds and precipitation. The high amounts of precipitation will lead to high amounts of vegetation. |
| Latitude | Direct Light | City A is almost directly on the equator so it receives direct light throughout the year. The hot intense direct light creates very warm temperatures year-round. When temperatures are warm, air becomes less dense it rises, condenses, and forms clouds and precipitation. The high amounts of precipitation will lead to high amounts of vegetation. |
| Location  | Inland | City A is inland so changes in temperature will be more noticeable without any ocean to insulate the city and control temperatures. The hot air around the equator will rise, condense, and forms clouds and precipitation. The high amounts of precipitation will lead to high amounts of vegetation. |
| Winds | Wind Direction and Pressure System | City A is located in the trade winds so wind will be coming from the east. Since it is next to the equator, it is in a low pressure zone. The hot air around the equator will rise, condense, and forms clouds and precipitation. The high amounts of precipitation will lead to high amounts of vegetation. |

City A

Precipitation: Wet

Temperature: Only Warm

Vegetation: Lots

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| Explanation | Rubric Topics to Discuss | Explanation |
| Surface Features | Soil/WaterSnow/Ice | City F has surface features that change depending on the season. In the summer, it will have more soil and water that absorb heat causing warmer temperatures. In the winter, it will have more snow/ice and reflect light causing lower temperature. However, since it is still in a high pressure zone air will sink resulting in few clouds and little precipitation. The low amounts of precipitation will lead to low amounts of vegetation. |
| Elevation | Sea Level | City F is at sea-level. At sea-level, there are more particles of air found closer to Earth. Since there are more particles of air, there are more collisions resulting in warmer surface temperatures. However, since it is still in a high pressure zone air will sink resulting in few clouds and little precipitation. The low amounts of precipitation will lead to low amounts of vegetation. |
| Latitude | Direct and Indirect Light | City F is between 30 and 60 degrees so it receives direct and indirect light throughout the year depending on the season. In the summer, the city will receive more direct light causing warmer surface temperatures because the light is more intense. In the winter, the city will receive more indirect light resulting in lower surface temperatures due to the low intensity of light. However, since it is still in a high pressure zone air will sink resulting in few clouds and little precipitation. The low amounts of precipitation will lead to low amounts of vegetation. |
| Location  | Inland | City F is coastal so seasonal changes in temperature will be less noticeable because the ocean insulates the city and controls large temperatures changes. In the winter, the temperature will be slightly warmer and in the summer the temperature will be slightly cooler. However, since it is still in a high pressure zone air will sink resulting in few clouds and little precipitation. The low amounts of precipitation will lead to low amounts of vegetation. |
| Winds | Wind Direction and Pressure System | City F is located in the prevailing westerlies so wind will be coming from the west. Since it is next to 30 degrees, it is in a high pressure zone. The air in a high pressure zone will sink resulting in few clouds and little precipitation. The low amounts of precipitation will lead to low amounts of vegetation. |

City F Precipitation: Dry

Temperature: Seasonal

Vegetation: Little