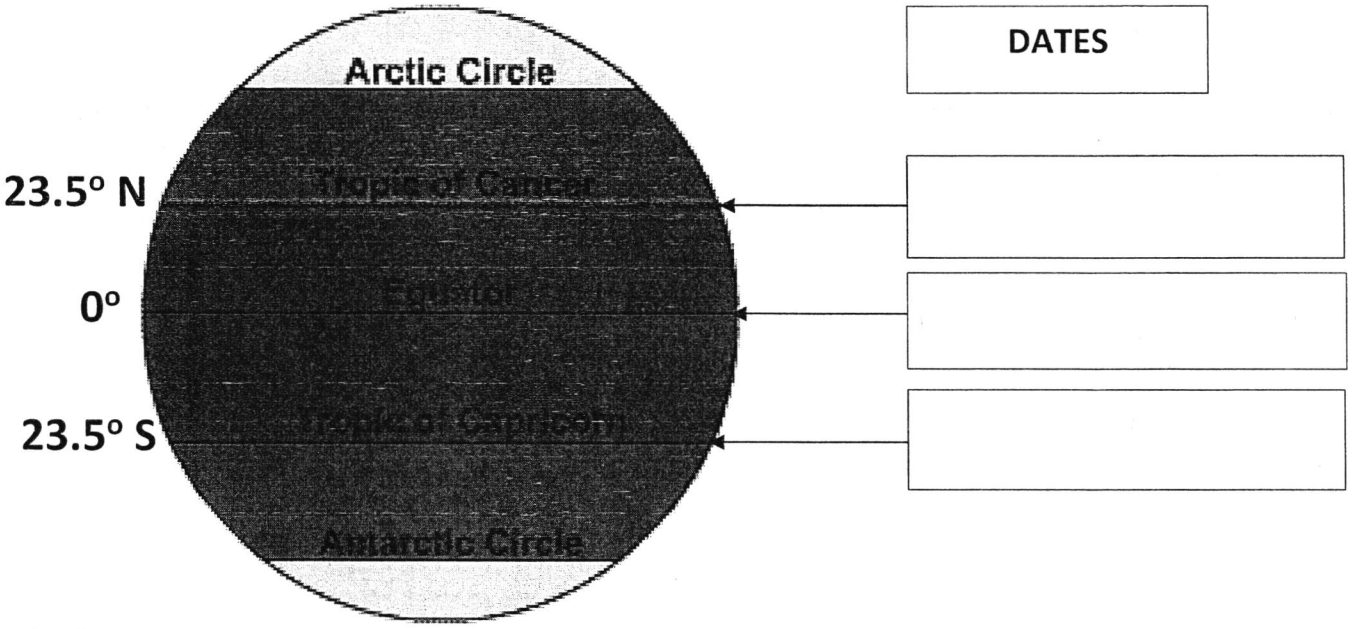
DIRECT RAYS OF THE SUN*



Use the diagram above to complete the following assignment:

1) **Match the 4 dates** (**Sep.23rd, Dec.21st, Mar.21st & June 21st**), indicating the **beginning of each season**, with the 3 latitudes shown on the diagram you are provided with (**2** dates will share a latitude). Place your answer in the boxes located to the **right** of the diagram. When doing this keep in mind:

- We live in the **Northern Hemisphere (above the Equator)**
- The **direct rays** of the Sun can only be found **between the Tropic of Cancer (23.5°N) and the Tropic of Capricorn (23.5°S)**
- The **closer** the direct rays of the Sun are to NYC, the **higher (warmer)** the temperatures will be; the **farther** the direct rays of the Sun are from NYC, the **lower (cooler)** the temperatures will be
- The significance of each season for us (for example, **Summer means higher/warmer temperatures, Winter means lower/colder temperatures**)

Site evidence from the diagram above for your selection:

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2) Determine whether the 2 cities below, can ever see the Sun directly overhead. Site evidence by using the diagram above.

a) Rio De Janeiro (23°S Latitude): ☐ Directly Overhead ☐ NOT directly overhead

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b) New York City (41° N Latitude): ☐ Directly Overhead ☐ NOT directly overhead

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