

Lodgepole Pine Forest Passport Chart

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Directions:

1. Begin the Lodgepole Pine Forest carbon cycle game by going to any forest carbon reservoir **or** to one assigned by your teacher.
2. Draw a ticket from the first station. The ticket describes the carbon reservoir you are currently in, the carbon reservoir you will move to next and the process that moves you. Processes are in **brackets**: ex. **[photosynthesis]**
3. Fill-in your **PASSPORT CHART** with the information from the ticket, including any time scale information (example, 10 days, 100 years) if included. You are free to take an educated guess if no time scale information is given.
4. Identify whether the carbon reservoir is part of the **BIOSPHERE (B)** or the **GEOSPHERE(G)**.
5. Follow any special instructions on the ticket such as "count to 100 and then go to.....".
6. For each round, record all required information in the **PASSPORT CHART**.
7. Do as many rounds as time allows and then share your carbon journey with your peers in the discussion below.

Here is an example:

Current Carbon Reservoir	Process moving carbon to a new reservoir	New Carbon Reservoir	Time scale
Living plants and animals (B)	respiration	Atmosphere (G)	25 years

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