Carbon Reservoirs & Global Carbon Cycling

Quick Write

- What are some of the different places that carbon (in any form) can be found or stored on Earth?
- What are some processes involved in moving atmospheric CO₂ around Earth?



Turn and Talk

- Discuss your quick write responses with someone near you:
 - What are some of the different places that carbon (in any form) can be found or stored on Earth?
 - What are some processes involved in moving atmospheric CO₂ around Earth?
- 2. Discuss one additional question:
 - What does carbon and the carbon cycle have to do with climate change?

It's All About Carbon

- Carbon reservoirs a place that collects & stores anything that is made completely or partially of carbon
- Carbon cards exploring diverse carbon reservoirs



- Carbon video
 - As you watch the video, jot down questions or ideas
 - After the video, do a Turn & Talk to share

Where is the carbon in the Sydney Harbor ecosystem?

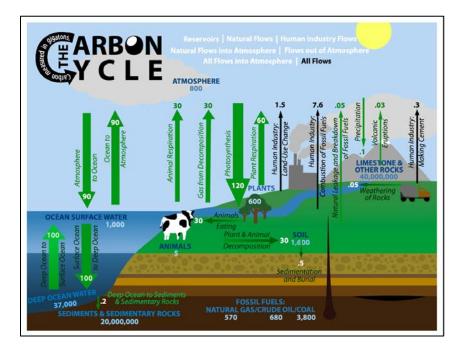
- Draw a quick sketch of what you see and label the carbon reservoirs
 Use lines and arrows to show how carbon might flow between reservoirs
 Record questions about carbon reservoirs and flows.



Carbon Cycle Defined:

Living things take in carbon as CO₂ through the process of photosynthesis and return carbon to the environment through the processes of

- (a) respiration,
- (b) absorption in the ocean,
- (c) decomposition,
- (d) combustion, and
- (e) fossil fuels & limestone.



Return to Quick Write – Line of Learning

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- What does carbon and the carbon cycle have to do with climate change?