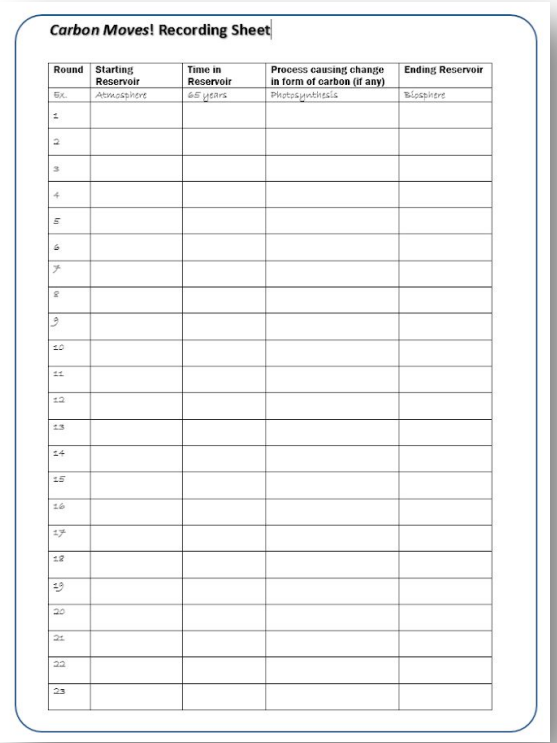
Carbon on the Move!

The carbon cycle card lab

Lab Data Sheet

With your lab group, complete this page.

1 page per group



***Carbon Moves*! Recording Sheet**

Round	Starting Reservoir	Time in Reservoir	Process causing change in form of carbon (if any)	Ending Reservoir
Ex.	Atmosphere	65 years	Photosynthesis	Biosphere
1				
2				
3				
4				
5				
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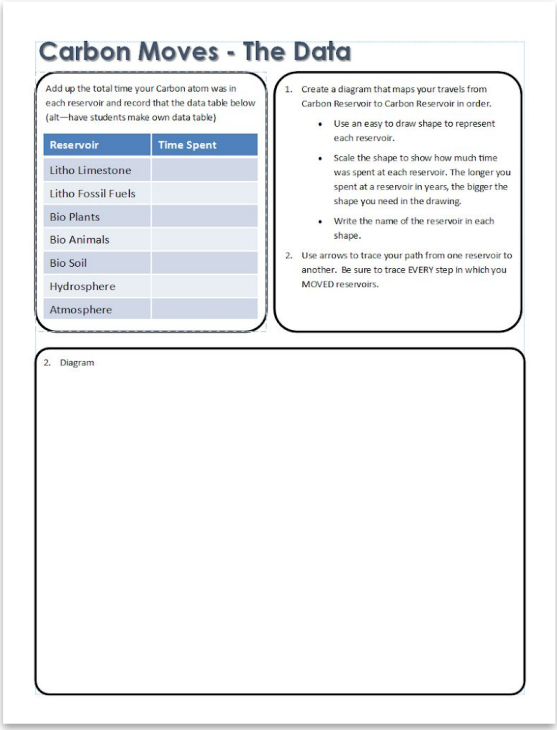
Each student will complete this lab sheet



Carbon Moves - The Data

Add up the total time your Carbon atom was in each reservoir and record that the data table below (alt—have students make own data table)

Reservoir	Time Spent
Litho Limestone	
Litho Fossil Fuels	
Bio Plants	
Bio Animals	
Bio Soil	
Hydrosphere	
Atmosphere	

1. Create a diagram that maps your travels from Carbon Reservoir to Carbon Reservoir in order.
   - Use an easy to draw shape to represent each reservoir.
   - Scale the shape to show how much time was spent at each reservoir. The longer you spent at a reservoir in years, the bigger the shape you need in the drawing.
   - Write the name of the reservoir in each shape.
2. Use arrows to trace your path from one reservoir to another. Be sure to trace EVERY step in which you MOVED reservoirs.

2. Diagram

Be sure to make your drawing to scale.

I have included the powerpoint questions on the reverse side on a later slide.

Questions

1. Where does carbon spend most of its time on Earth?
2. What are the main ways carbon gets into the atmosphere?
3. What are the main ways carbon gets taken out of the atmosphere?
4. Were there many pathways out of the Lithosphere for carbon? Hypothesize why or why not.
5. Based on your information how might humans help reduce the amount of carbon in the atmosphere?