

## CUP LABELS: NON-FLUXING CARBON

In pencil, write the name of each the reservoirs from the Reservoir Choices Box on p. 2, Section I of the handout onto one of each of the cup labels, based on the amount of carbon in the reservoir. Use what you know about how much carbon each of the reservoirs contains to determine which reservoir name to write on each cup label.

\_\_\_\_\_  
*RESERVOIR NAME*

**40,528 PgC**

\_\_\_\_\_  
*RESERVOIR NAME*

**1,875 PgC**

\_\_\_\_\_  
*RESERVOIR NAME*

**628 PgC**

\_\_\_\_\_  
*RESERVOIR NAME*

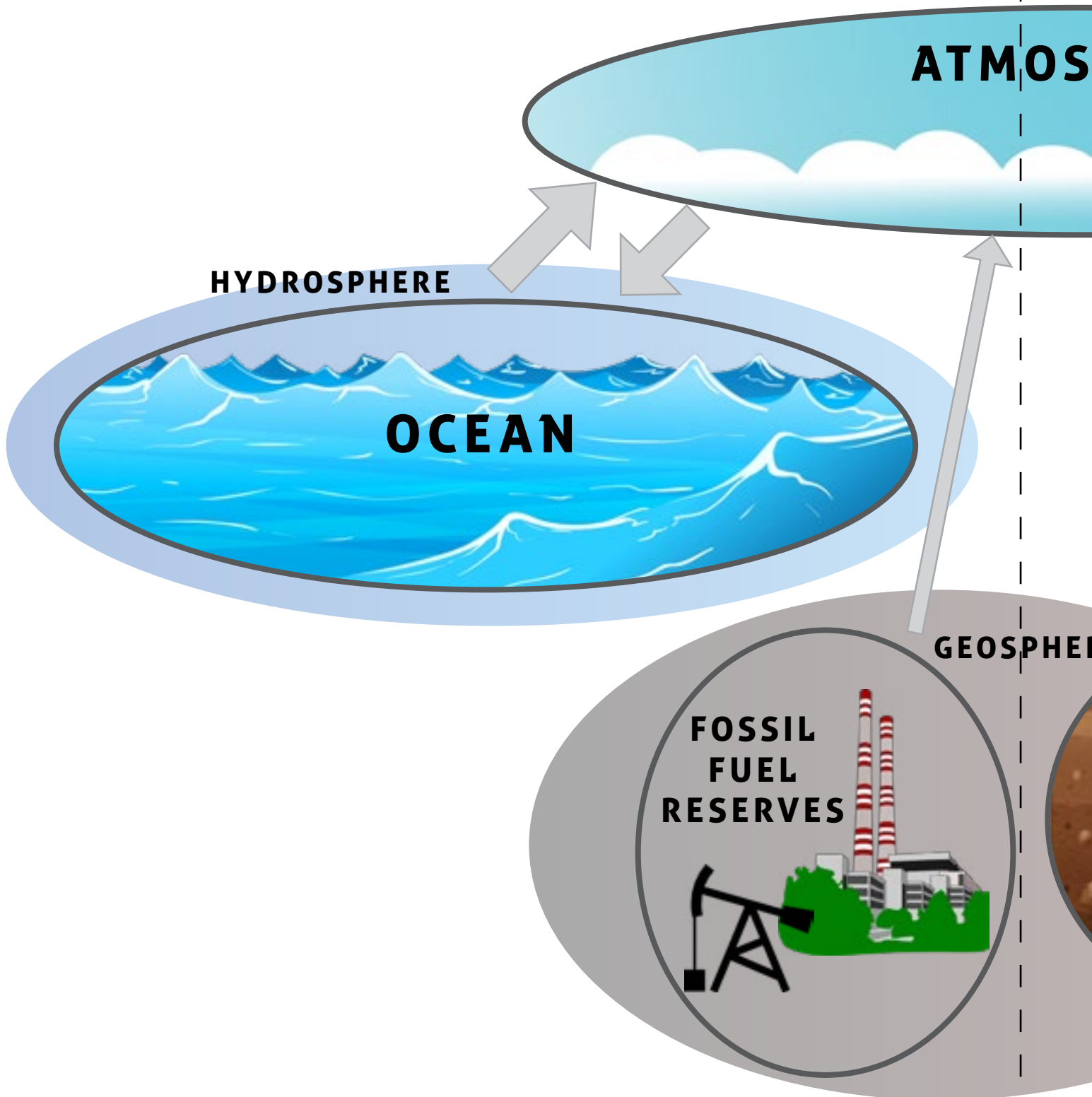
**1,099 PgC**

\_\_\_\_\_  
*RESERVOIR NAME*

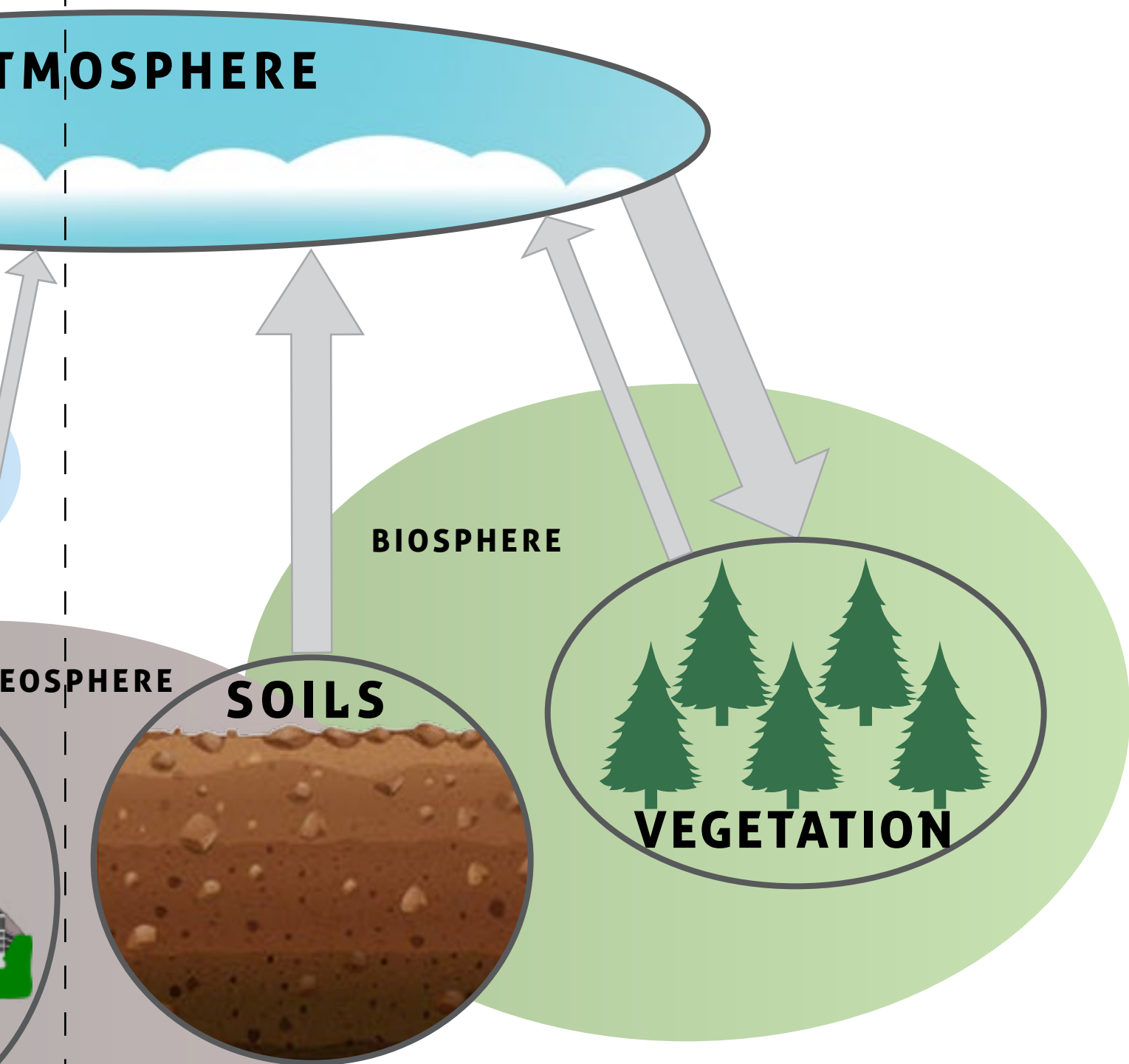
**476 PgC**



UP IN T



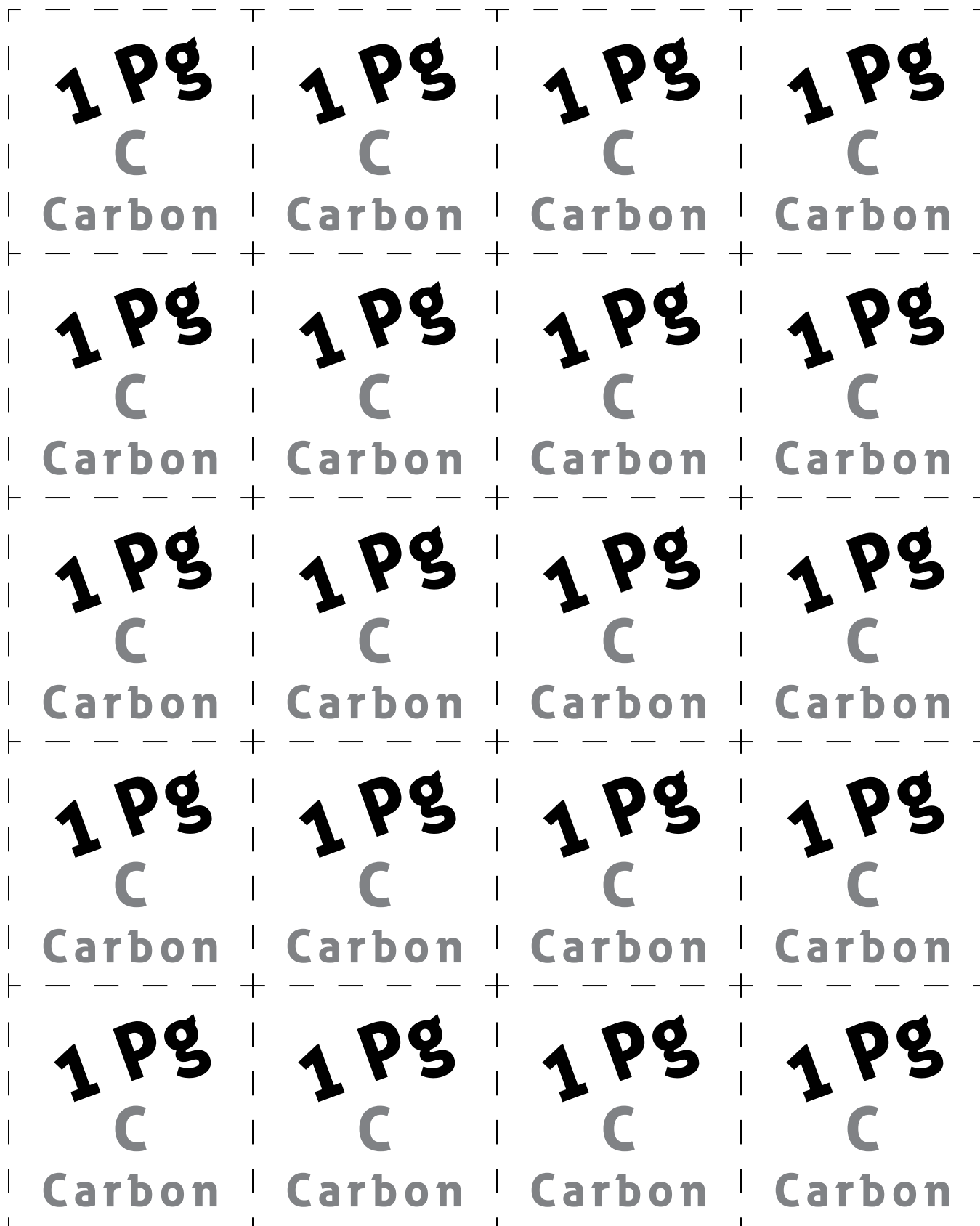
# IN THE AIR



Data Source: Ciais et al., 2013, IPCC, Ch. 6

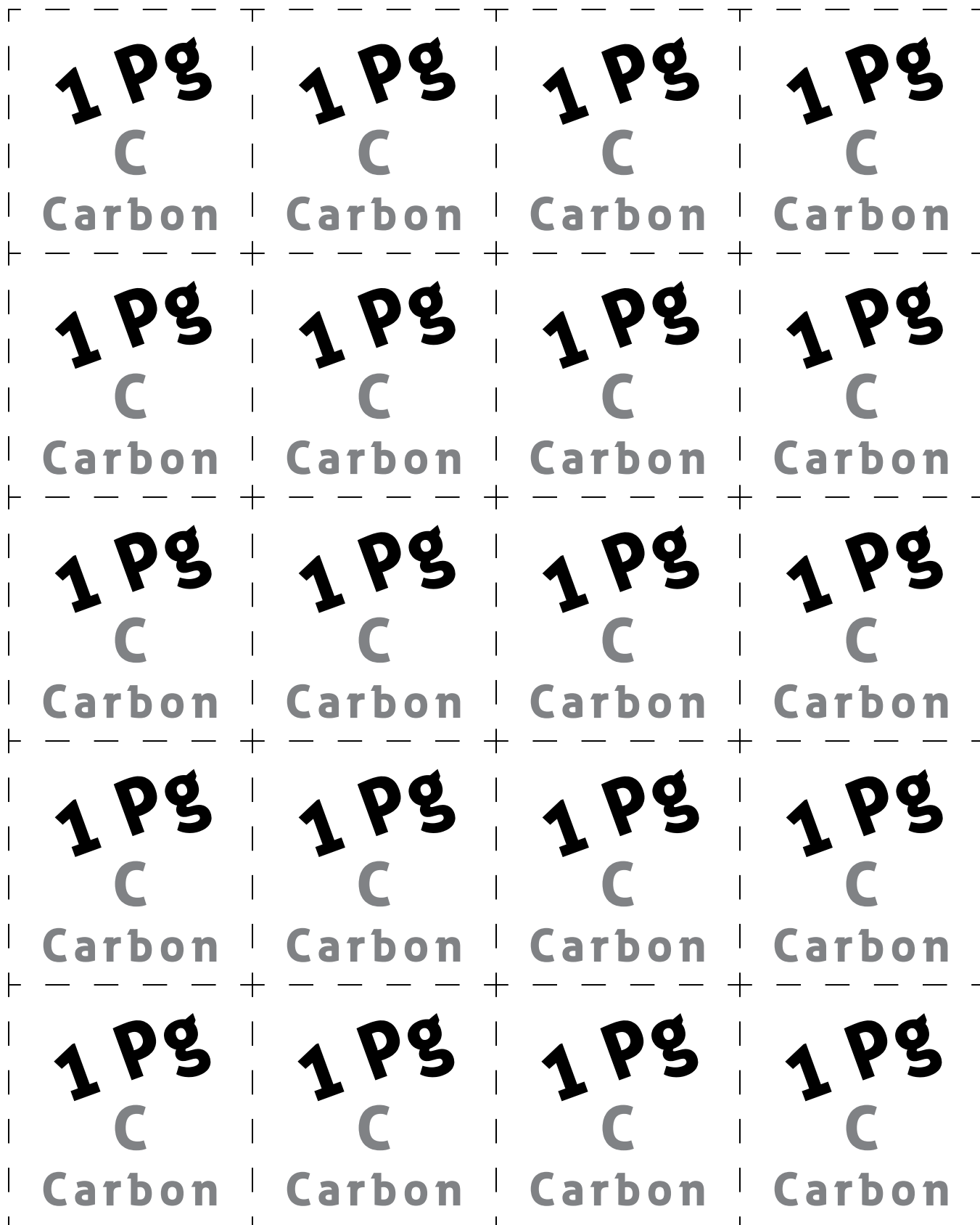
## FLUXING CARBON PIECES

One set per every two students, copy onto cardstock and cut.



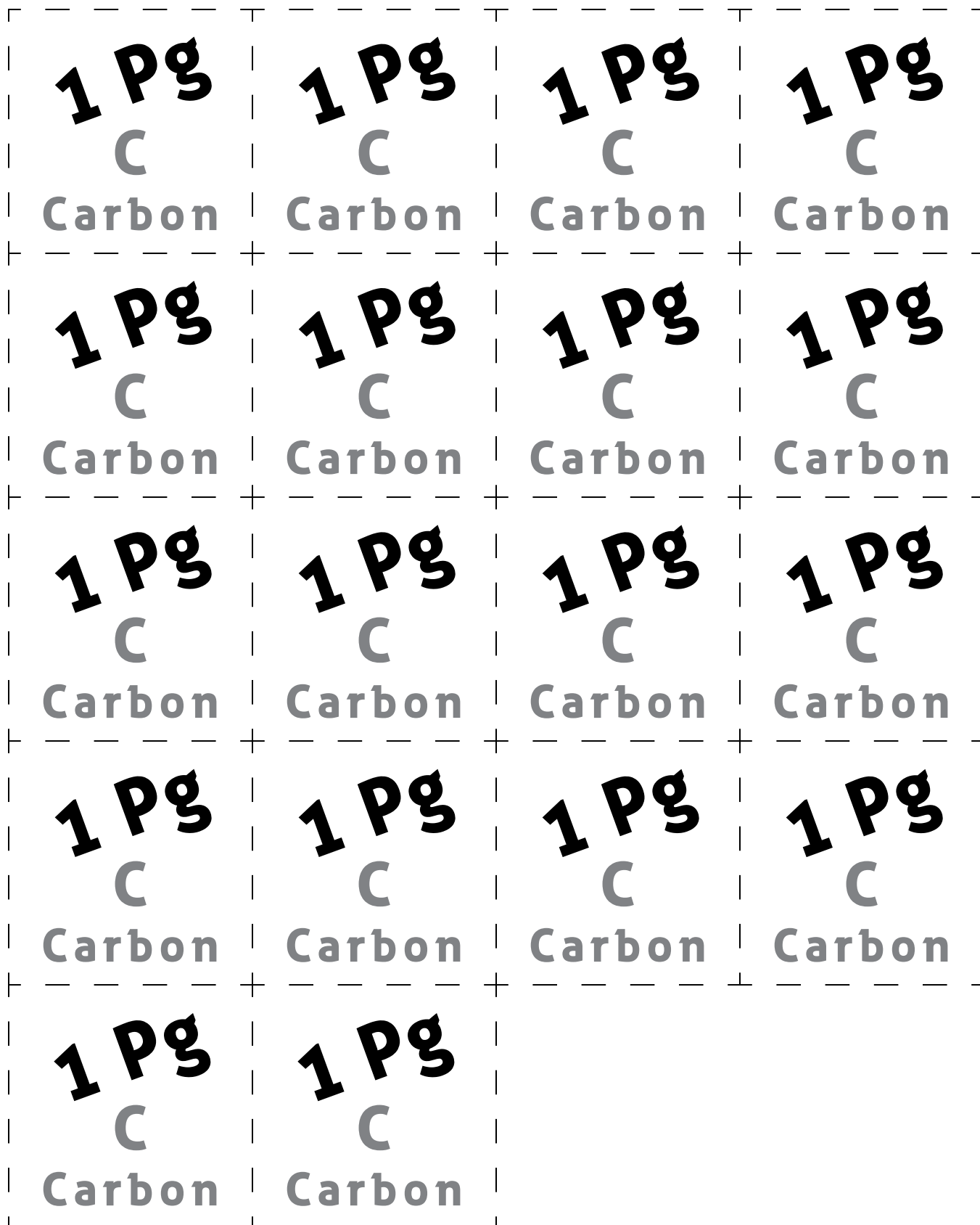
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**10 Pg**

**C**

**Carbon**

**10 Pg**

**C**

**Carbon**

**10 Pg**

**C**

**Carbon**

**10 Pg**

**C**

**Carbon**

**10 Pg**

**C**

**Carbon**

**10 Pg**

**C**

**Carbon**

**10 Pg**

**C**

**Carbon**

**10 Pg**

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**Carbon**

**10 Pg**

**C**

**Carbon**

**10 Pg**

**C**

**Carbon**

**10 Pg**

**C**

**Carbon**

## RESERVOIR GAME CARDS

One copy per every two students, copy onto cardstock and cut.

**A**

### **Ocean Carbon Release**

From Ocean to Atmosphere

**80 PgC**

### **Ocean Carbon Absorption**

From Atmosphere to Ocean

**78 PgC**

**A**

### **Combustion of Oil, Coal, and Natural Gas**

From Fossil Fuel Reserves to Atmosphere

**8 PgC**

**A**

### **Soil Respiration**

From Soils to Atmosphere

**75 PgC**

**A**

### **Vegetation Respiration**

From Vegetation to Atmosphere

**44 PgC**

### **Photosynthesis**

From Ocean to Atmosphere

**123 PgC**

## PROCESS ONLY GAME CARDS

One copy per every two students, copy onto cardstock and cut.

**A**

**Ocean Carbon  
Release**

**80 PgC**

**Ocean Carbon  
Absorption**

**78 PgC**

**A**

**Combustion  
of Oil, Coal,  
and Natural Gas**

**8 PgC**

**A**

**Soil  
Respiration**

**75 PgC**

**A**

**Vegetation  
Respiration**

**44 PgC**

**Photosynthesis**

**123 PgC**