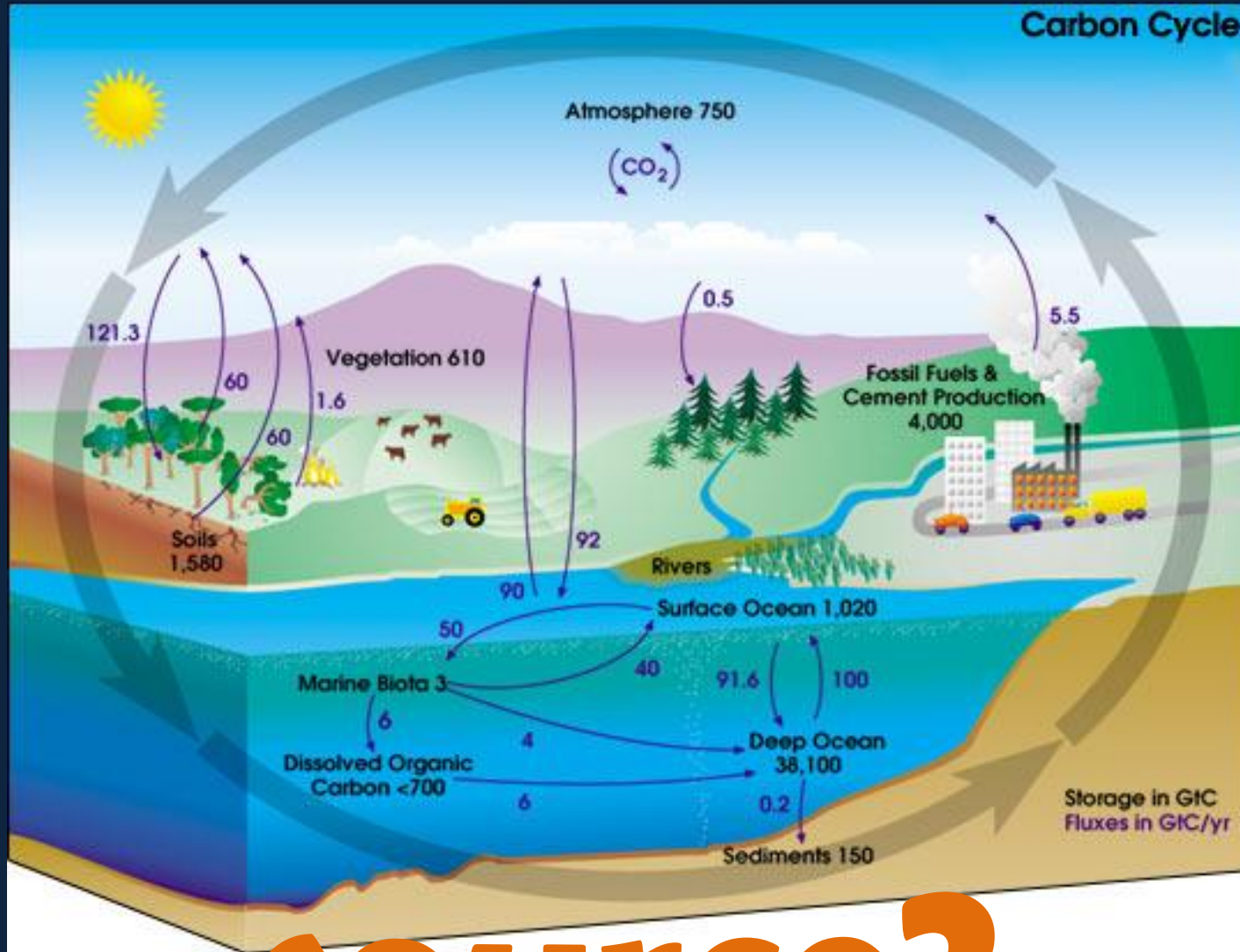
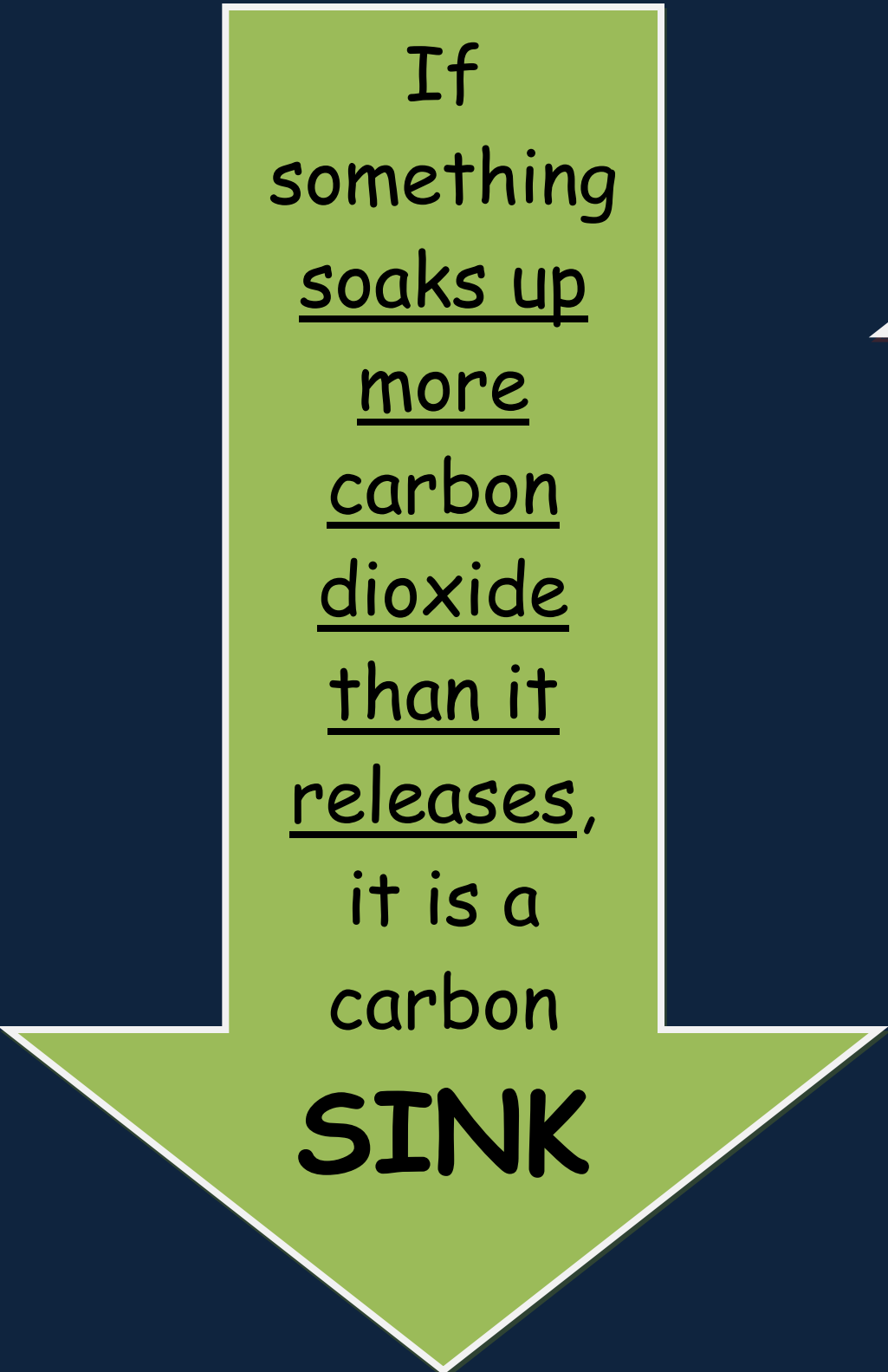


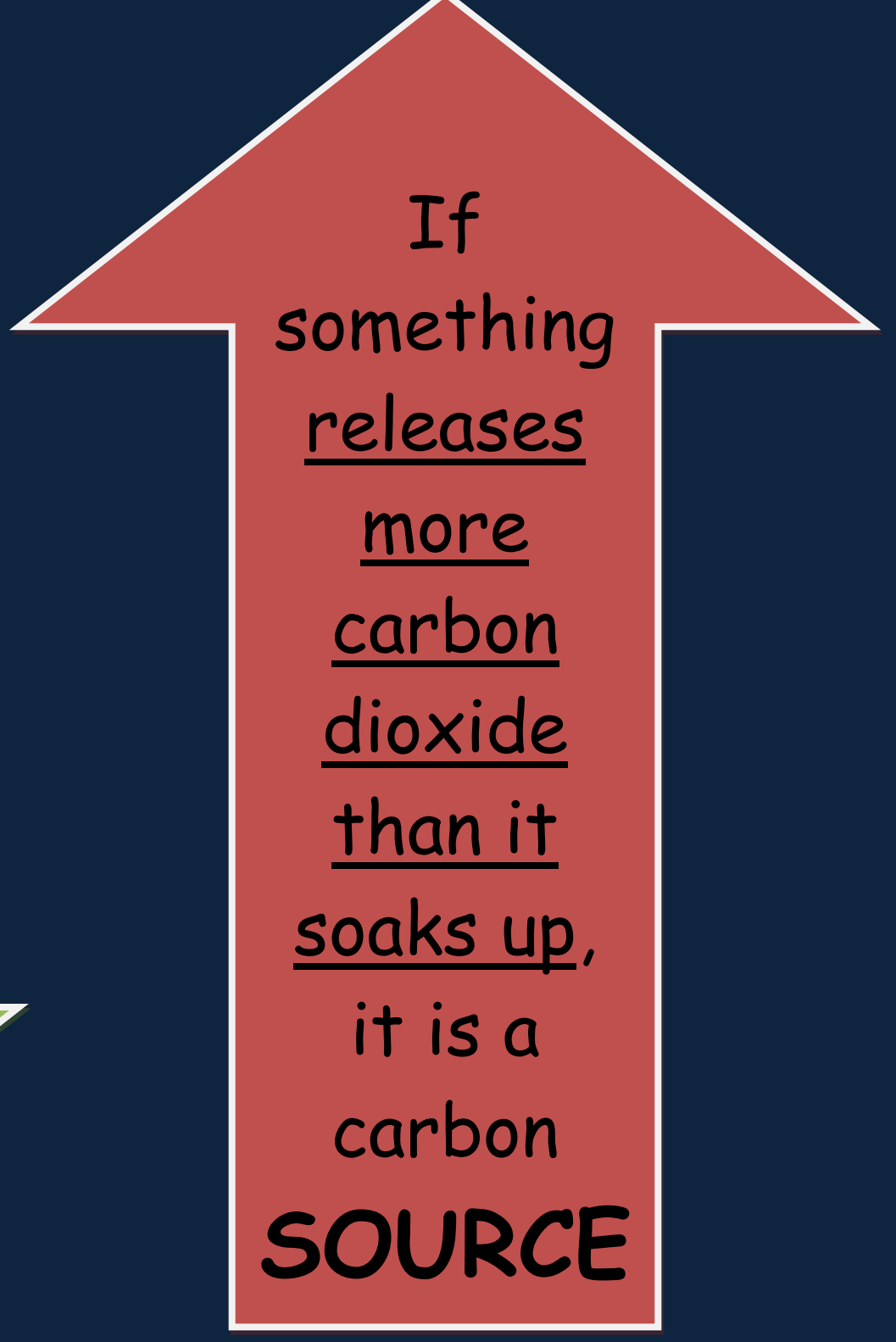
Is it a **sink** or a



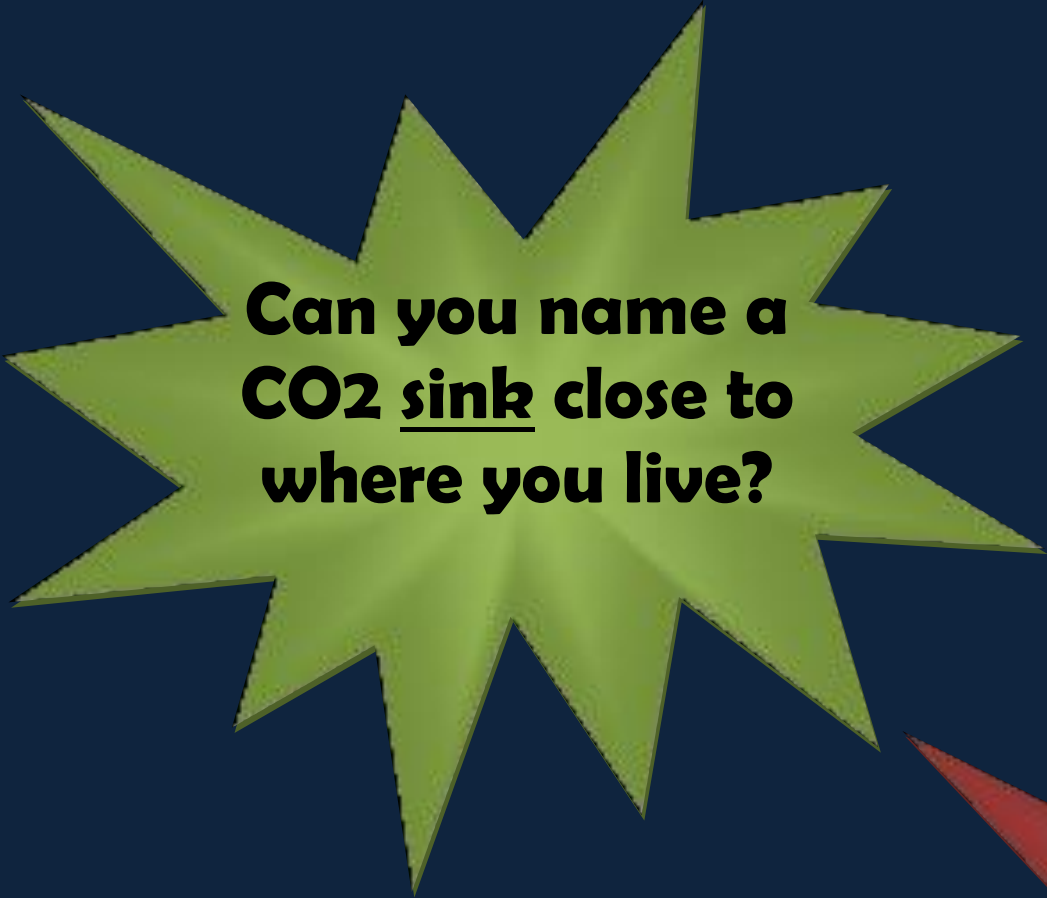
source?



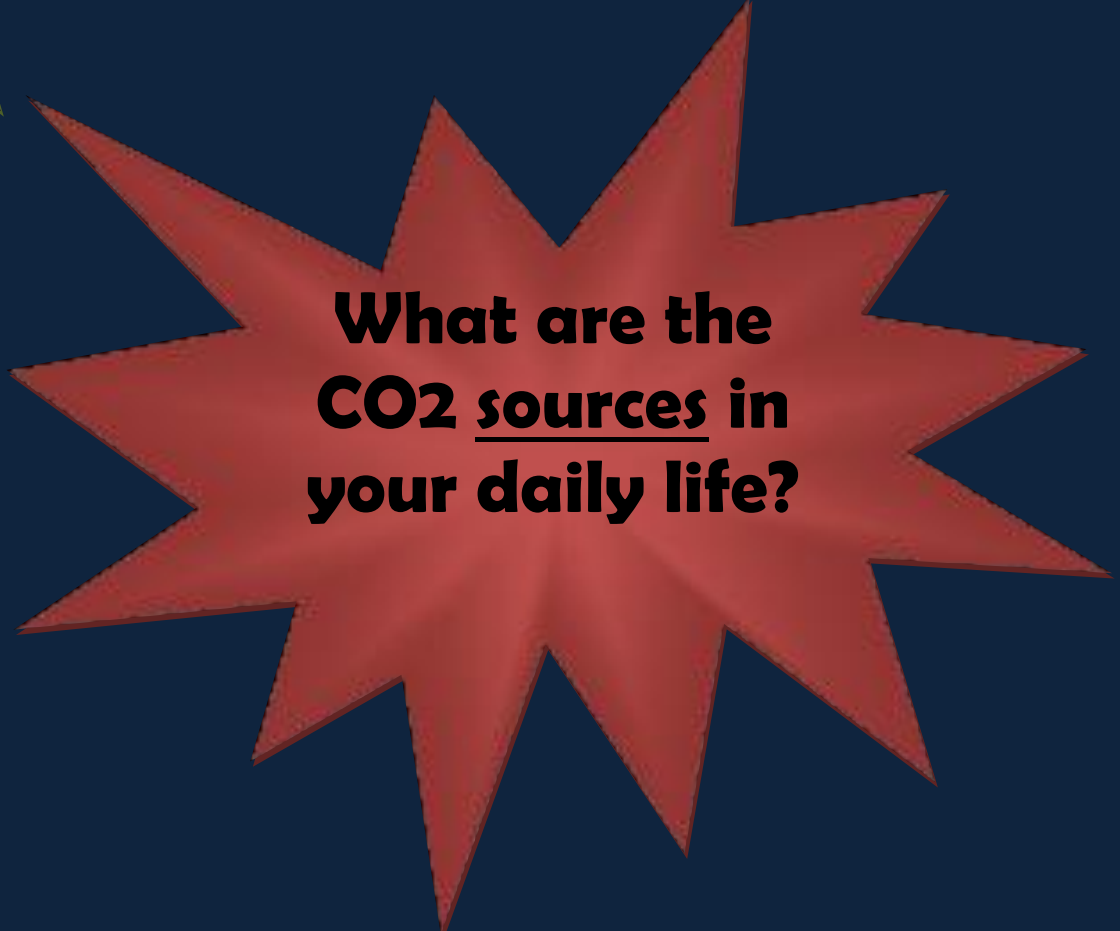
If
something
soaks up
more
carbon
dioxide
than it
releases,
it is a
carbon
SINK



If
something
releases
more
carbon
dioxide
than it
soaks up,
it is a
carbon
SOURCE



**Can you name a
CO₂ sink close to
where you live?**



**What are the
CO₂ sources in
your daily life?**

Carbon:

- **Derived from Latin “carbo” meaning coal**
- **3 natural isotopes: ^{12}C , ^{13}C , ^{14}C (radioactive)**
- **Allotropes = graphite, diamond, amorphous**
- **Sources of Carbon:**
 - **Inorganic = dolomite, limestone, CO_2**
 - **Organic = coal, peat, oil, methane clathrates**
- **Forms MORE compounds than any other element...about 10 million.**
- **4th most abundant in the universe (by mass)**
- **Present in ALL lifeforms—2nd most abundant (by mass) in our bodies**
- **It is the chemical basis of all known life**
- **Hydrocarbons = coal, crude, natural gas, oil sands & shale coals**
- **It is in the atmosphere, biosphere & oceans**

Carbon Dioxide Variations

