

In-class activity 11

This assignment is worth a maximum of 3.0 points, and is due in class today. No in-class assignment is accepted after the end of class.

Work cooperatively and collaboratively as a team on this in-class assignment. Each person in your group will be awarded the same points as the entire assignment. *Turn in this sheet at the end of class, and attach another page if necessary.*

Assemble Your Group

- [0.5 points.] Find your assigned group members, and sign in below.

Team member: _____

Team member: _____

Team member: _____

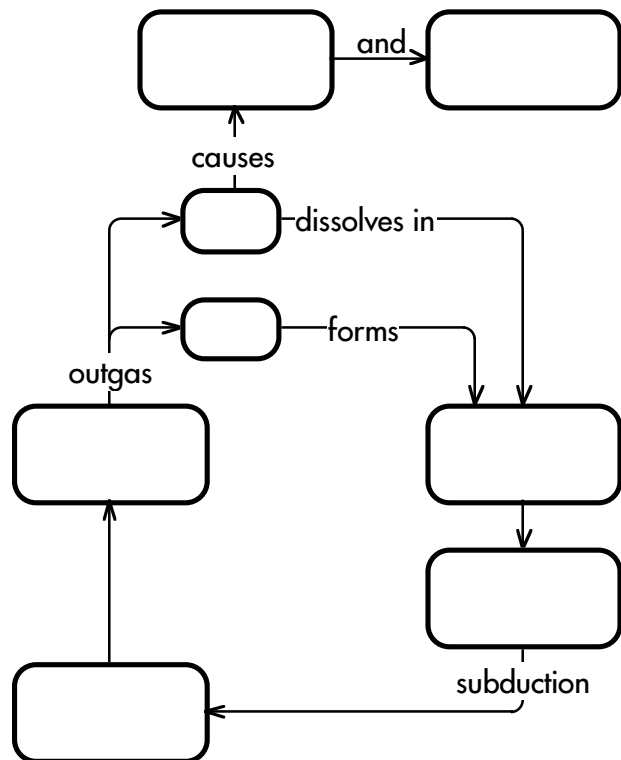
Team member: _____

Planetary Atmosphere Cycles

- [2.5 points.] (Cf. Fix, *Astronomy to the Cosmic Frontier*, 4/e, pages 227-228, and 255-258 for more details.) On the following pages, fill in the atmosphere cycle charts for Earth, Venus, and Mars. Every one of the 30 rounded corner boxes should have an entry from the list below. Each term should only be used once, except where explicitly noted.

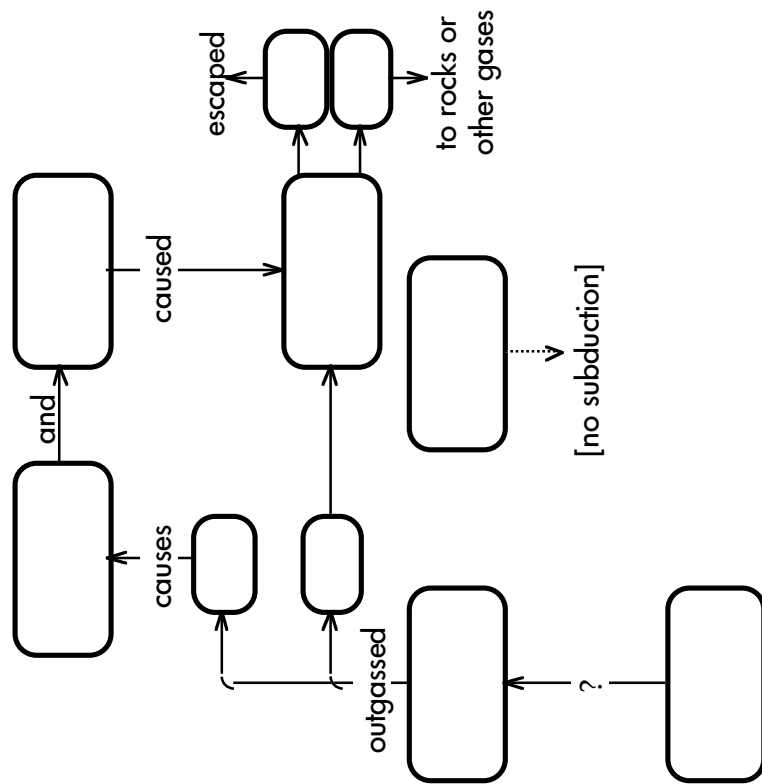
- Active volcanos
- Chemical reactions
- CO₂ ("carbon dioxide molecule") (3)
- Crust
- Dead volcanos
- Deposition*
- Dormant volcanos
- Freezing
- H₂ ("hydrogen molecule")
- H₂O ("water molecule") (3)
- High temperatures
- Low temperatures
- Mantle (3)
- Medium greenhouse effect
- Moderate temperatures
- O ("oxygen atom")
- Oceans (2)
- Permafrost
- Polar dry ice caps
- Sedimentary rock (2)
- Strong greenhouse effect
- Weak greenhouse effect

Planet: Earth



*The "freezing" of a gas from gaseous to solid form at very low temperatures.
07.08.07

Planet: Venus



Planet: Mars

