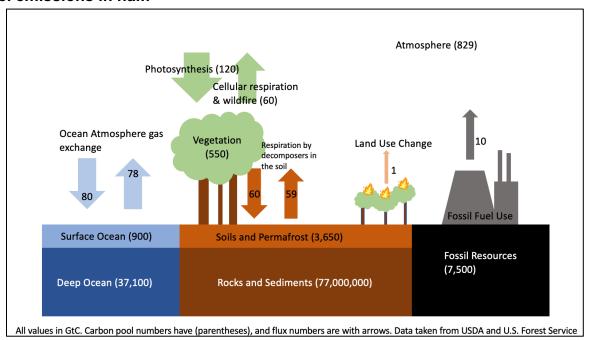
Name	_Teacher	Date
4.5: Seasons and	Oceans	Worksheet
 A. Explaining why CO₂ concentrations concentrations at the South Pole Start by viewing videos that show some imposexplanation: The NOAA "pumphandle" video: https://www.poutube.com/year are hemispheres. Comparing the annual cycle in Hawaii Pole:	rtant patterns that y ://www.esrl.noaa.gc different in the North vs. the South atUDnFmNTY&fe entrations reach s at different bresentation s Affect and winter are hemispheres. s and checklist to w	rou will need for your ov/gmd/ccgg/trends/history.html hern and Southern Hawaii Peaks: October South Pole Peaks: March rite your explanation:
Carbon Pools Question: Which carbon pools are changing?		
Carbon Cycling Question: Which carbon flux Energy Flow Question: What form of energy Stability and Change Question: Now try puttir cycles of CO ₂ concentrations different for Have	changes with the se	asons?gether. Why are the annual



B. Using a global carbon cycling diagram to predict the effects of cutting fossil fuel emissions in half.



Try using this diagram to make a prediction of what would happen if humans cut emissions from fossil fuel use in half, but all the other pools and fluxes stayed the same. Show your calculations below.