Name: _____ **Date:** _____

Team members: _____

LAB 1B: Student Data Worksheet - How Much Carbon is Stored in a Local Tree?

TREE species name: _____

TREE common name: _____

Hardwood or Softwood: _____

Observations of your tree and its environment.

DATA and CALCULATIONS:

Circumference of tree: _____(cm)

Diameter(D) of tree: _____(cm) *To calculate diameter, divide the circumference by 3.14(Pi)*

Allometric coefficients for your species of tree:

   "a" coefficient _____ "b" coefficient _____

Biomass(M): _____(kg) Use formula $M = aD^b$

Mass of carbon stored_____(kg)

Multiply total tree biomass (M) * 0.521 for mass of carbon in hardwood trees:

_____*(kg)*

Or:

Multiply total tree biomass (M) * 0.498 for mass of carbon in softwood trees:

_____*(kg)*

Amount of carbon dioxide (CO2) absorbed from air to create the mass of carbon stored in tree:

_____**kg**   *Multiply mass of carbon stored(kg) by 3.67*

Optional:

Amount of tree carbon(kg) = _____metric tons (*1 metric ton = 1000 kg)*

This is equivalent to _____ (lbs) of carbon *(1 metric ton = 2,205 lbs)*

NOTES: