	Sec
Chem 226/ Dr. Rusay	2008
Infrared S	Spectroscopy: Chemical Functions
SEE: http	o://www.chem.csustan.edu/Tutorials/INFRARED.HTM
	Web spectra for the following 10 unknown compounds. tions.org/organic/chem226/Labs/IR/ir-unknowns.html
dd number, do the odd Unknowns; ho has done the other set and explour choices. Complete the entire	ent in each Web unknown assigned to you. If your DVC ID ends if it ends in an even number or zero, do the even. Then, find a parain your assignments of functions and peaks in the spectra that supform of 10 unknowns. The selection is limited to alcohols, et d aldehydes. Be sure to provide the key peak(s) in the spectrum tion (eg. ketone, 1720 cm ⁻¹).
Your DVC ID #: Student worked with:	Function and Corresponding IR peak(s) (cm ⁻¹)
Unknown 1	
Unknown 2	
Unknown 3	
Unknown 4	
Unknown 5	
Unknown 6	
Unknown 7	
Unknown 8	
_	
Unknown 9	

Peak(s)_____

Function _____

Key Oxygen Functions		
Alcohol	H H H-C-C-O-H H H	СН₃СН₂ОН
Ether	H H H-C- O-C-H H H	CH ₃ OCH ₃
Aldehyde	O II H ₃ C—CH	СН₃СНО
Ketone	H ₃ C CH ₃	CH₃COCH₃
Carboxylic Acid	H₃C → OH	СН₃СООН
Ester	H ₃ C OCH ₃	CH₃CO₂CH₃
Amide	H ₃ C N CH ₃	CH₃CONHCH₃