Tree Circumference & Height Protocol Test

	students--> >																		
Student activity & Level of Performance **+** appropriate student performance **-** inappropriate student performance **n.a.** not appropriate or not observed																			
Tree Circumference																			
Stand on level ground with object being measured																			
Choose 5 trees of dominant species that reach the canopy (choose tallest, shortest & midrange)																			
Measure & record circumference (cm) for each tree at height of 1.35m; record																			
Repeat measurements for other tree species if < 5 trees of dominant species																			
Tree Height																			
Stand on level ground with object being measured																			
Measure & record height of eyes from the ground																			
Sight object through clinometer straw; move away from base of tree until clinometer reads 30° - 60°																			
Partner records – BVW (string + washer)																			
Measure & record distance from observer to object																			
Calculate & record height of object: Tree height = (TAN – BVW x distance to object) + eye height																			
Record height for 5 trees of dominant species; average																			
Record height for 5 trees of co-dominant species, if present; average																			
Include other tree species if < 5 trees of dominant or co-dominant species																			