Teacher_____   Student_____

Station Number_____   Land Use_____

Jigsaw 1

Table of Averages of Indicators

Station	Description of Land Use	Run Off Meter^3	Sediments Mg/L	Water Temp. ^{0}C	D. O. Mg/L	Nitrogen Mg/L	Phosphorus Mg/L	Heavy Metals Mg/L	Toxins Mg/L
0	Pristine Forest								
Difference (Average your station- Average Pristine Forest)									
% Change (Difference/ Average Pristine Forest) x 100									
Order Smallest to Greatest % Change. Start with 1.									

Teacher_____   Student_____

Recorder_____   Land Use_____

Jigsaw 2 Individual Chart

Nitrogen
Table of % Change

Station	1 Logged Forest	2 Mixed Agriculture	3 Residential	4 Commercial Industrial	6 Urban
% **Change**					
Order					

Phosphorus
Table of % Change

Station	1 Logged Forest	2 Mixed Agriculture	3 Residential	4 Commercial Industrial	6 Urban
% **Change**					
Order					

Individual Response:

Teacher_____   Student_____

Recorder_____   Land Use_____

Jigsaw 2 Individual Chart
Heavy Metals
Table of Differences

Station	1 Logged Forest	2 Mixed Agriculture	3 Residential	4 Commercial Industrial	6 Urban
Difference					
Order					

Toxin
Table of Differences

Station	1 Logged Forest	2 Mixed Agriculture	3 Residential	4 Commercial Industrial	6 Urban
Difference					
Order					

Individual Response:

Teacher_____   Student_____

Recorder_____   Land Use_____

Jigsaw 2 Individual Chart
Water Temperature
Table of % Change

Station	1 Logged Forest	2 Mixed Agriculture	3 Residential	4 Commercial Industrial	6 Urban
% **Change**					
Order					

Dissolved Oxygen
Table of % Change

Station	1 Logged Forest	2 Mixed Agriculture	3 Residential	4 Commercial Industrial	6 Urban
% **Change**					
Order					

Individual Response:

Teacher_____   Student_____

Recorder_____   Land Use_____

Jigsaw 2 Individual Chart
Run Off
Table of % Change

Station	1 Logged Forest	2 Mixed Agriculture	3 Residential	4 Commercial Industrial	6 Urban
% **Change**					
Order					

Sediments
Table of % Change

Station	1 Logged Forest	2 Mixed Agriculture	3 Residential	4 Commercial Industrial	6 Urban
% **Change**					
Order					

Individual Response:

Teacher_____   Student_____
Indicators_____   Land Use_____
_____

Jigsaw 3—Chart 1
Indicator Relationships using Scatter Plots

Sub Group 1: Indicators Sediment, Run Off, Heavy Metals and Toxins

Station _____	Water Temp. vs. Air Temp	Sediments vs. Run Off	Nitrogen vs. Sediments	Phosphorus vs. Sediments	Sediments vs. Precipitation	Sediments vs. Air Temp	Heavy Metals vs. Sediments	Toxins vs Sediments
Draw Graph								
Enter (+,-) and (S, W or NC)								

Teacher_____   Student_____

Indicators_____   Land Use_____

_____

Jigsaw 3—Chart 1
Indicator Relationships using Scatter Plots

Sub Group 2: Indicators Water Temperature, Dissolved Oxygen, Nitrogen, Phosphorus

Station _____	D.O. vs. Water Temp.	Phosphorus vs. Water Temp.	Sediment vs. Run Off	Nitrogen vs. Sediments	Phosphorus vs. Sediments	Run Off vs. Precipitation	Nitrogen vs. D. O.	Phosphorus vs. D. O.
Draw Graph								
Enter (+,-) and (S, W or NC)								

Teacher_____   Student_____

Indicators_____   Land Use_____

Jigsaw 3—Chart 2
Indicator Relationship Comparison

Strong Relationship/ Sign (+,-)	Weak Relationship/ Sign (+,-)	No Relationship