Data Sheets

Project Name: _____

Site Data

SCHOOL INFORMATION

School Name:

Grade Level:

Teacher:

School Address:

School email:

STREAM SITE INFORMATION

Stream Name:

Major Watershed:

(Hudson, Delaware, Chesapeake, etc.)

sub-basin:

(Schuylkill, Lehigh, etc)

Project Location:

(Closest town or major landmark to project site)

Latitude: ☐ degrees ☐ minutes ☐ North ☐ South

Longitude: ☐ degrees ☐ minutes ☐ East ☐ West

Elevation: ☐ meters

Source of lat/long. and elevation? ☐ GPS ☐ Maps

Project Name: _____

Field Data Sheet I

Control Leaf Pack:
(3 dominant leaf species)

	Placed	Removed
Date:		
Number of packs:		
Air temperature (C) :		
Water temperature (C):		
Time:		

Did any storms occur during this period?

Storm date:	Amount of precipitation:	Did flooding occur?

Did any other significant events occur during this time period? (droughts, etc)?

Project Name: _____

Field Data Sheet II

Experimental Leaf Pack Description:

	Placed	Removed
Date:		
Number of packs:		
Air temperature (C) :		
Water temperature (C):		
Time:		

Did any storms occur during this period?

Storm date:	Amount of precipitation:	Did flooding occur?

Did any other significant events occur during this time period? (droughts, etc)?

Project Name: _____

HABITAT DATA SHEET

Explore 30 meters of the stream, starting with your leaf pack site and looking upstream. Right and left bank designation is determined by looking upstream. Check the category that best describes your stream. The Glossary should accompany the following data sheets to help with definitions.

IN- STREAM CHARACTERISTICS

1. Stream habitats present

(More than one box may be checked)

☐ pools	☐ riffles	☐ runs
☐ logs	☐ woody debris	☐ fine sediment/sand
☐ wetlands	☐ leaves	☐ aquatic vegetation

2. Water appearance

☐ clear	☐ turbid	☐ foamy
☐ oily sheen	☐ _____	colored (describe)

3. Human modification of stream channel

☐ none	☐ bridge	☐ dam
☐ cement	☐ boulders	☐ pipe or ditch entering stream
☐ actively discharging pipe(s)	☐ _____	Other *(describe)*

STREAM BANK CHARACTERISTICS

4. Evidence of erosion

Left bank	Right bank
☐ < 20%	☐ < 20%
☐ 20% to 50%	☐ 20% to 50%
☐ >50%	☐ >50%

5. Percent streambank vegetation

Left bank	Right bank
☐ < 20%	☐ < 20%
☐ 20-50%	☐ 20-50%
☐ > 50%	☐ > 50%

6. Stream bottom composition

☐ cobbles	☐ boulders	☐ sediment
☐ gravel	☐ bedrock	other:

VEGETATION ALONG BANK

Explore 30 meters of the stream upstream and 30 meters adjacent to your leaf pack site.

7. Left bank

- ☐ none
- ☐ grass
- ☐ trees
- ☐ shrubs
- ☐ Forest
  - ☐ *mostly evergreen*
  - ☐ *mostly deciduous*

Right bank

- ☐ none
- ☐ grass
- ☐ trees
- ☐ shrubs
- ☐ Forest
  - ☐ *mostly evergreen*
  - ☐ *mostly deciduous*

Project Name: _____

LAND-USE CHARACTERISTICS

Describe the main land-use within 1/4 mile upstream and adjacent to your site.

8. Land-use

- ☐ agriculture
- ☐ fields/pasture
- ☐ golf course
- ☐ parks and recreation
- ☐ sewage treatment plant
- ☐ forest
- ☐ active construction
- ☐ residential /commercial
- ☐ industrial
- ☐ mowed lawn

9. Impervious surfaces (Includes roads, parking lots, malls, houses)

☐ < 20% ☐ 20% to 50% ☐ > 50%

10. Presence of litter in stream

- ☐ none
- ☐ paper, small trash
- ☐ cans/bottles
- ☐ tires, carts, etc.
- ☐ other

ADDITIONAL INFORMATION ABOUT YOUR STREAM

Average width (meters): ☐

Stream discharge: ☐
(cubic meters per second)

Team Data Sheet: Macroinvertebrate Data

Project Name: _____ **Date:** _____

Team Members: _____ **Leaf Pack #:** _____

TAXON	TALLY	TOTAL
EPHEMEROPTERA (Mayflies)		
PLECOPTERA (Stoneflies)		
TRICHOPTERA (Caddisflies)		
Hydropsychidae (common netspinners)		
Other caddisflies		
ANISOPTERA (Dragonflies)		
ZYGOPTERA (Damselflies)		
MEGALOPTERA		
Corydalidae (hellgrammites)		
Sialidae (alderflies)		
COLEOPTERA (Beetles)		
DIPTERA (True Flies)		
Athericidae (Watersnipe flies)		
Chironomidae (midges)		
Simuliidae (black flies)		
Tipulidae (crane flies)		
Other Diptera		
AMPHIPODA (Scud)		
ISOPODA (Aquatic sowbugs)		
DECAPODA (Crayfish)		
OLIGOCHAETA (Aquatic worms)		
HIRUDINEA (Leeches)		
TURBELLARIA (Planarians)		
GASTROPODA (Snails)		

Leaf Pack Summary Sheet: Macroinvertebrate Data

Project Name: _____ **Date:** _____

Class: _____ **Leaf Pack #:** _____

TAXON	TALLY	TOTAL
EPHEMEROPTERA (Mayflies)		
PLECOPTERA (Stoneflies)		
TRICHOPTERA (Caddisflies)		
Hydropsychidae (common netspinners)		
Other caddisflies		
ANISOPTERA (Dragonflies)		
ZYGOPTERA (Damselflies)		
MEGALOPTERA		
Corydalidae (hellgrammites)		
Sialidae (alderflies)		
COLEOPTERA (Beetles)		
DIPTERA (True Flies)		
Athericidae (Watersnipe flies)		
Chironomidae (midges)		
Simuliidae (black flies)		
Tipulidae (crane flies)		
Other Diptera		
AMPHIPODA (Scud)		
ISOPODA (Aquatic sowbugs)		
DECAPODA (Crayfish)		
OLIGOCHAETA (Aquatic worms)		
HIRUDINEA (Leeches)		
TURBELLARIA (Planarians)		
GASTROPODA (Snails)		

Project Summary Data Sheet: Macroinvertebrate Data

Project Name: _____ **Date:** _____

# of leaf packs: _____

TAXON	LP #1	LP#2	LP#3	TOTAL	AVERAGE
EPHEMEROPTERA (Mayflies)					
PLECOPTERA (Stoneflies)					
TRICHOPTERA (Caddisflies)					
Hydropsychidae (common netspinners)					
Other caddisflies					
ANISOPTERA (Dragonflies)					
ZYGOPTERA (Damselflies)					
MEGALOPTERA					
Corydalidae (hellgrammites)					
Sialidae (alderflies)					
COLEOPTERA (Beetles)					
DIPTERA (True Flies)					
Athericidae (Watersnipe flies)					
Chironomidae (midges)					
Simuliidae (black flies)					
Tipulidae (crane flies)					
Other Diptera					
AMPHIPODA (Scud)					
ISOPODA (Aquatic sowbugs)					
DECAPODA (Crayfish)					
OLIGOCHAETA (Aquatic worms)					
HIRUDINEA (Leeches)					
TURBELLARIA (Planarians)					
GASTROPODA (Snails)					

Macroinvertebrate Total:					