LESSON PLAN

GREATER LANSING REGIONAL COMMITTEE FOR STORMWATER MANAGEMENT
www.mywatersheds.org

Activity: Nonpoint Source Pollution in Your Watershed

Time: 50-60 minutes

Grades: 6-12

Education Standards (NGSS):
MS-LS2-2, MS-LS2-1, MS-LS2-4, MS-LS1-5, MS-ESS2-4, MS-ESS3-3, MS-ESS3-4, MS-ETS1-1, HS-LS2-2, HS-LS2-6, HS-LS2-8, HS-LS4-6, HS-LS4-5, HS-ESS2-5, HS-ESS3-1, HS-ESS3-6, ES-ETS1-2

Objective:
To understand the impact of nonpoint source pollution on our environment, how stormwater runoff affects our aquatic ecosystems, and how to change personal behavior to prevent stormwater pollution.

Materials Used for Activity
- Enviroscape® Watershed/Nonpoint Source Interactive Model
- What is stormwater pollution Power Point
- Brochures on stormwater pollution
- Watershed map
- Worksheet on pollution prevention

Learning Outcomes
- What is a watershed? How does a healthy watershed function?
- How are models useful in helping us understand our environmental impact?
- What is the difference between storm and sanitary sewer systems?
- How do I identify pervious versus impervious surfaces?
- What is green stormwater infrastructure?
- What are ten common contaminants in stormwater runoff?
- What personal actions can I take to reduce stormwater pollution?
- What is the difference between nonpoint and point source pollution?
- What is a municipal separate storm sewer system, or MS4?
- Why must MS4s obtain a permit to discharge to surface waters?

Lesson Plan Schedule
- Introduction to stormwater pollution slide presentation: 10 minutes
- Engage with Enviroscape Watershed/Nonpoint Source Model: 20 - 30 minutes
- Q & A on nonpoint sources of pollution within stormwater runoff: 10 minutes
- Pollution Prevention Worksheet: 10 minutes

Out of Class Assignment(s)
- Complete pre- and post-assessments listing point and nonpoint sources of pollution.
- Discuss steps you and your family take or can take to prevent stormwater pollution.