

Land Use Activity Teacher's Guide

Students will examine possible correlations between land use patterns and water pollution.

GRADE LEVEL: 9th - 12th

SUBJECT AREA/COURSE: Biology, Geography, Environmental Science

SUNSHINE STATE STANDARDS:

- Knows that the world ecosystems are shaped by physical factors that limit their productivity (SC.G.2.4.4)
- Understands that the amount of life any environment can support is limited and human activities can change the flow of energy and reduce the fertility of the earth (SC.G.2.4.5)
- Knows the ways in which humans today are placing their environmental support systems at risk(SC.G.2.4.6)
- Understands the global impact of human changes in the physical environment (SS.B.2.4.4)

ACADEMIC OUTCOMES/LESSON OBJECTIVES:

- Students will be able to compare the various watersheds of Seminole County, Florida as to how the land in that watershed is used
- Students will be able to determine if the use of the lands of the watershed have impacted the watershed in either a positive or negative way

TEACHER RESEARCH: Develop a lesson on land use planning. Discuss how governments determine how land is to be used. A discussion of zoning would be appropriate. Teachers should also research the sources of nutrients listed in the water atlas as to their impact on the environment. This lesson can be completed in one or slightly more than one instructional period.

MATERIALS NEEDED: Access to the website on the Internet

SAFETY: N/A

VOCABULARY: zoning, agriculture, urban, rural, conservation, property tax

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