Rivers and Streams Teacher's Guide



Rivers and streams contain water in motion. Running water is beneficial to supporting aquatic organisms because the constant movement aerates the water, providing oxygen necessary for survival. The movement of water also keeps nutrients available and flushes wastes further downstream. Running water also can cause some loss of life, such as experienced during a flood, with organisms moved downstream, into flood plains and away from flowing water or unable to survive the increased flow and dying.

Illinois has 106,900 miles of rivers and streams within its borders (see Figure 1). It is estimated that the surface area of Illinois' interior rivers and streams is 325,000 acres.

Definition

Rivers and streams are deep water habitats contained within a channel. If water flows through the channel throughout the year, the river or stream is called a perennial stream. An intermittent stream has water flowing only part of the year. The smaller streams that feed into larger rivers and streams are called tributaries. The land adjacent to a river or stream that is periodically flooded is called the flood plain.

Young or immature streams are short and flow swiftly, thus the rate of erosion is great. The channels of these streams are usually straight, with a v-shaped bottom. Older or mature streams have wide, flat-bottomed, or u-shaped channels. The water flows slower, and the rate of erosion is less. It is a natural process for bodies of water to evolve. Water is dynamic, not static.

The rate water flows within a channel is called velocity. Many factors can influence the velocity of water. The gradient (pitch) of the channel, volume of water flowing and amount of area the stream drains (watershed) influence the flow of water. Recent precipitation, or lack of precipitation, will contribute to the stream's velocity. Stream flow also is affected by the composition or type of material in the stream bed (sand, silt, mud, gravel, bedrock).

Every river and stream has a watershed or drainage basin. This is the total land area that provides water to the river or stream. Along with the surface water runoff, these bodies of water receive sedimentation and other materials from the watershed. Many rivers flood regularly, increasing productivity and enriching flood.

plains with sediment and nutrients. Changes to the Mississippi and Illinois rivers, such as levees and locks and dams, have diminished the natural flooding cycles and reduced productivity of these systems. So, while flooding may be a problem for humans, it is an important and natural process for rivers.

Length of Major Illinois Rivers (includes only Illinois portion of rivers found in multiple states)

	581 miles	Mississippi
	332 miles	Illinois
	292 miles	Kaskaskia
	237 miles	Little Wabash
	230 miles	Wabash
	220 miles	Embarras
	206 miles	Sangamon
	166 miles	Big Muddy
	163 miles	Rock
	163 miles	Spoon
	156 miles	Des Plaines
	133 miles	Ohio
	115 miles	Fox
	93 miles	Cache

Source: Illinois Environmental Protection Agency, 1995.

River And The Source Teachers Guide

Mike Jess

River And The Source Teachers Guide:

The Teacher's Guide to Palestine Henry Stafford Osborn, 1870 A Study Guide to The River and the Source Real Data Resources for Teachers ,1995 Margaret Roche, Violet Musyoka, 1998 A Teacher's Guide to Educational **Assessment** Iasonas Lamprianou, James A. Athanasou, 2009-01-01 This book is a natural step beyond our earlier text A Teacher's Guide to Assessment which was published almost six years ago The purpose of this book is to offer a straightforward guide to educational assessment for teachers at all levels of education including trainers and instructors The scope of this book is wider however and the targeted audience is broader than the first edition It is designed to address the needs not only of those taking a first course in educational assessment and measurement but it can also usefully serve students at the post graduate level as well as experienced teachers trainers and instructors who would like to update their knowledge and acquire practical skills using relevant quantitative methods. The book is appropriate for an international audience In this revised edition we have added new and important material which covers the assessment arrangements necessary for people with special needs and the use of technology for assessment purposes We have elaborated on the dangers of differential item functioning we have extended the Rasch measurement material and enriched the book with practical examples using Microsoft Excel The main message of the book is that assessment is not based on commonsense but on a huge body of international research and application over many years Testing is a powerful vital and large part of a teacher's assessment arsenal because it can be practical structured and very informative. The correct use of testing either in its traditional paper and pencil form or in its modern technology based style can be a formidable ally for every teacher who aspires to practise evidence based teaching and learning **ENC Focus** ,1999 Teacher's Manual to Accompany Frye's Geography Alex Everett Frye, 1896 Teacher's Manual to Accompany Frye's Geographies Alex Everett Frye, 1897 Multicultural Approaches in Math and Science, 1998 United States Educational, Scientific, and Cultural Motion Pictures and Filmstrips: Education Section 1958, Selected and Available for Use Abroad United States Information Agency, 1959 **Resources in Education** ,2001-04 The Acting Teacher's and Student's in Training Guide and Text Book for Certificate Examinations Henry Major, 1873 **Library of Congress Catalog: Motion Pictures and Filmstrips** Abstracts of North American Geology ,1971 Library of Congress, 1968 Methods for Teaching Elementary School Science Joseph M. Peters, David L. Stout, 2006 For Elementary Science Methods courses Streamlined to be more manageable in limited class time the new edition of Methods for Teaching Elementary School Science has been crafted to be the text that best prepares pre service teachers for today s science classroom It accomplishes this by clearly modeling The Teacher's Guide to Media inquiry teaching and addressing the realities of the contemporary science classroom Literacy Cyndy Scheibe, Faith Rogow, 2011-11-07 Use media literacy to reach all students The Teacher's Guide to Media Literacy starts by asking What does it mean to be literate in today s world and how can those literacy skills be developed The

authors answer those questions by providing concrete innovative ways to integrate media literacy across the curriculum and teach students to be independent skilled and reflective thinkers Through dozens of suggested activities teaching strategies and lessons this book s unique vision allows schools to Integrate media literacy into teaching at all grade levels and core content areas Address key education standards Teach 21st century skills and higher order critical thinking Engage students by bridging schoolwork with their lives outside the classroom In addition to dozens of activity ideas the text and companion website include self reflection exercises voices from the field a glossary of terms and seven annotated original classroom tested lesson plans that illustrate different approaches to media literacy in the classroom In a time of hectic schedules and ever increasing expectations the authors help teachers reframe their instruction to focus on the skills students need to succeed in the digital age

EPA National Publications Catalog United States. Environmental Protection Agency,1996

Sex Goes to School Susan K. Freeman, 2010-10-01 When seeking approaches for sex education few look to the past for guidance But Susan K Freeman s investigation of the classrooms of the 1940s and 1950s offers numerous insights into the potential for sex education to address adolescent challenges particularly for girls From rural Toms River New Jersey to urban San Diego and many places in between the use of discussion based classes fostered an environment that focused less on strictly biological matters of human reproduction and more on the social dimensions of the gendered and sexual worlds that the students inhabited Although the classes reinforced normative heterosexual gender roles that could prove repressive the discussion based approach also emphasized a potentially liberating sense of personal choice and responsibility in young women s relationship decisions In addition to the biological and psychological underpinnings of normative sexuality teachers presented girls sex lives and gendered behavior as critical to the success of American families and by extension the entire way of life of American democracy The approaches of teachers and students were sometimes predictable and other times surprising yet almost wholly without controversy in the two decades before the so called Sexual Revolution of the 1960s Sex Goes to School illuminates the tensions between and among adults and youth attempting to make sense of sex in a society that was then as much as today both sex phobic and sex saturated

School Bulletin Minneapolis Public Schools, 1953

Use Abroad; Education Section United States. Interdepartmental Committee on Visual and Auditory Materials for Distribution Abroad. Subcommittee on Catalog,1959 Mega-Dams and Indigenous Human Rights Itzchak Kornfeld,2020-01-31 This original and insightful book explores and examines the impact that building mega dams has on the human rights of those living in surrounding areas and in particular those of indigenous peoples who are often most affected Compiling case studies from around the world Itzchak Kornfeld provides clear examples of how human rights violations are perpetrated and compounded with chapters examining historical recent and ongoing dam projects

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