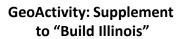
Illinois Fossils Trunk – Binder Contents Checklist Key



GeoActivity: Geologic Time

	Geolog	gic Time		
	s: y portray the magnitude of geol Earth's formation,	ation. Grade leval: 4-12		
To help understand the relative chronology of certain "milepost" events.			Illinois Learning 11.A.1; 2; 3d 12.E.2b; 3a; 4b 13.B.1b	
 To clarify (e.g., wh) 	misconceptions about geologic en dinosaurs lived).	Standards assign Joseph M. Schoer		
measure black markl cardboard p	lacards or poster board	2-foot rope can	be used, but d	Ivide all
ribbon or he measuring t Preparatie The entire 2	ape or stick on: 6-foot rope corresponds to all of s	eologic time fro	m the formation	of the planet
Preparation The entire 2 until the presiduating the dividing the 12 calendar boards are placards are responding may illustra Rope	ape or stock 2011 4-foot rope corresponds to all of § 4-foot rope corresponds to all of § 4-foot rope into 12 segments. If you il monthe (see GenActivy PRIM) used to make signs for specific a numbers, as deadkivy and the events numbers are written on tags tie te the placands.	arking pen to m ke, you can cor -2: Cosmic Cal geologic event are in chronolo d to the rope at Calendar	ark the rope ev opare the 12 se endar). Ten pla s in Earth's hist skal order (cot	ery 2 feet, thus agments to the card or poster tory. These ional), and cor- hs. Students Millions of
Preparation The entire 2 until the pre- dividing the 12 calendar boards are placards are placard	ape or stock on: d-clot rope corresponds to all of g- sert (4.6 billion years). Use the m rope into 12 segments. If you it months (see GeoActify) PPIN used to make signs for specific numbers are written on lags lie te the placards. Geologie Eivent	arking pen to m te, you can cor -2: Cosmic Cal geologic event are in chronolo d to the rope at Calendar Comparison	ark the rope even opere the 12 as endar). Ten pla s in Earth's hist ploal order (opt specified lengt	any 2 feet, thus igments to the card or poster tory. These ional), and cor- hs. Students Millions of Years Age
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Minois State Deological Survey GeoActivity MIST-1

Supplement to "Build Illinois"

Objectives: • To teach recognition of basic sedimentary geologic materials and the environments associated with them.	Astivity type: Demonstration Grade level: 4-12 Illinois Learning Standards: 19.6.1, 20.4.6 Standards: assignment: Joseph M. Schoen
 To Illustrate the variety of landscapes that, over the last 500 million years, formed illinois. 	
 To relate landscapes to the geologic processes that created them and the mineral resources that formed. 	
Terms: busin, bedrock, coal, delta, end moraine, glacier, ground r sendstone, shele, fill	soraine, limestone, outwash,
	Sealah d 10 dd Blasis I
Background: This demonstration is designed to accompany the ISOS (The "Bulk Block" demonstration is a highly visual way of	
The "build librous" demonstration is a highly vision way on the landscape of Illinois over the last 500 million years. Th logic history of Illinois was first done as a 30-minute talk p	tis quick "walk" through the geo

The core of this lesson is based on making a "map" out of send or other (sand is cheep, but heavy) shaped into the outline of the state of Illinois. The main landscapes that are illustrated as students "travel through time" are

- Ancient oceans of approximately 540 to 325 million years ago (early Paleozoic Era)
 Delta and swamp of approximately 328 to 390 million years ago (later Paleozoic Era)
- Dry landscape of most of the last 290 million years (latest Paleozoic, Mesozoic, and Cenozoic Eres)

"los Agos" of the last 1.8 million years (late Cenozoic Era-Pleistocene Epoch)

Materials: Materials: Damp sand: Damp sand (about 50-75 ths) should be shaped into the outline of III on a board, table, sandbox, or other area. For the best effect, IIInois should be abour inch deep and 5 or 6 test long, but a smaller scale will also write, Keep acts and a northern end of Ilinois where it will be available to construct the defial and glacers. Sedimente: One small bag of sand, one of dirt, and one of seashells

Condictivity (1972) 1

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Rock samples: Sandstone, limestone (with fossil shells), and shale (with
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() Illinois State Geological Survey

Correlation to Learning Standards



GeoActivity: Pangea Revisited

GeoActivity PRIN-4

Pangea Revisited

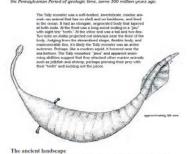
Objectives: To recognize nadical changes that have eccurred to the Earth's surface over geologic time To reconstruct Pangea based on several types of existence Terms: continental drift theory. Mesozoic Em, Palestroic Era,	Activity type: Activity Grade level: 4–12 Illicols Learning Standards: 11.A. 12.2.4 11.B. 12.5.4 12.E.14, 25.4, 25.4, 51.4, 5 13.4, 7b, c; 7b, c; 3b, c; 40, c 13.8, 7b, c; 7b, c; 40, c 13.8, 7b, c; 7b, c; 40, c
Pangea, Panthalassa, plate tectonics theory	Joseph M. Schoen
Background: More than 250 million years ego, a supercontinent—know existed on the earth. Pangea was formed as mumerous ar verged throughout the Paleecose". This formation of created an enomous ocean, Perchadanas, but covered b the Maccole Text, politicity of the runneous contenets pre As Pangea rithed, or spit apart, Panhalasse shrark to with Ocean. The Marcole Coven and other oceans also ware fo	nation continents slowly con- Pangea by the late Paleozoic he reat of the earth. The super- years ago, at the beginning of sanity found around the globe. at today is called the Pacific
Alfred Wegener was the first to consider the existence of named Pangaa. In the early 1900s, Wegener developed the This hypothesis stated that the less dense continents "fis foundation. The present continents were formed as the pix across the oceans to their current locations.	e continental drift hypothesis. ated" on a denser molten rock
Wegener bolieved that, when Panges broke splirt, the op ocean floor on their journey to their present locations. Not edges of the continents builded and as masses of ocean front of each continent. However, actual evidence of this was not found. In addition, Wegener could offer no hypoth childe. Thus, Wegener's hypothesis of continental drift we	intains formed as the leading floor sediments were plowed in type of continental movement resis as to why the continents
However, the existence of the supercontinent was below tional evidence now shows that the entire surface layer o called plates, that move, carrying the continents with the movement of hot rock rising and cool orustal material sind development of the theory of plate tectonics.	the planet consists of pieces, m. The process is driven by the

() Illinois State Geological Survey

GeoBit 5: Illinois' State Fossil, Tullimonstrum gregarium

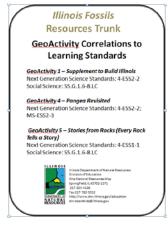
Minois State Geological Survey Geobit 5 _

Illinois' State Fossil—Tullimonstrum gregarium Tullimonstrum gregarium, the "Tully monster," is the official State Fossil of Binois Nove extinct, this animal was once a fairty common inhabitant of this area during the Pennsphenian Period of geologic time, some 500 million years ago.



uring the Pennsylvanian Peni Jampa, forested with primitiv w seas nearby, the Tuby mon tarits, and other marine anim ola. The

GeoActivity Correlations to Learning Standards



GeoActivity: Stories from Rocks

Illinois State Geological Survey GeoActivity RXMN-5

Stories from Rocks (Every Rock Tells a Story)

bjectives: To interpret a story from rocks using direct observations. To learn to deduce the layout of an ancient landscape from present information.	Activity type: Activity Grade level: 4–12 Hinola Learning Standar 11.A.1;2;2;4=4;5=0 12.E.1a;2a;b;3a;b;4;5 13.A.1b;c;2b;0
To learn how sedimentary rocks form and what kinds of environments they form in (their environments of deposition).	Standerds assignment Joseph M. Schoon
To recreate an ancient illinois landscape based on a sui	te of rocks.
erms: oquina, environment of deposition	

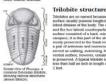
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GeoBit 6: The Trilobite - An Early Inhabitant of Illinois









Illinois Fossils Trunk – Binder Contents Checklist Key

IDNR Division of Education promo sheet



Online Resources page



IDNR Lending Trunks promo sheets

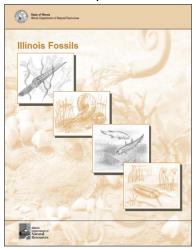


resources trunk

Are you teaching about mannals? Then borrow the **Illineis Tild Hammals Intelli** Field guides, tim, stells, mabber tradis, nubber roats, problem (and the other lenses are included for your use. For a lating of lensing locations near you, with our Web site at thru//www.dmillinei.gov/education. Suggested grades: PreK – 8 but can be modified for other grade levels. Correlations to Illineia and national learning standards are included.

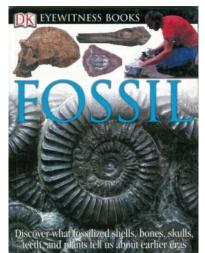


Illinois Fossils activity book

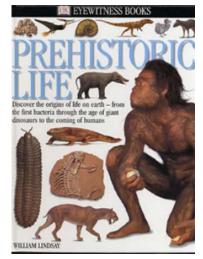


Illinois Fossils Trunk – Large Container Contents Checklist Key

Eyewitness Fossil book



Eyewitness Prehistoric Life book



Illinois Fossils Trunk – Large Contents Checklist Key

Fossil Hunt Kit Contents Checklist Key

6 large numbered fossils

forceps

geological time scale sheet



kit instructions

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magnifying lens



small fossils in gravel mixture



General Fossil Collection Kit Contents Checklist Key

15 large numbered fossils

fossil identification guide

MA FOSSIL COLLECTION

geological time scale sheet



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Illinois Fossils Trunk – Large Container Checklist Key

Natural Study Aides Casting Molds Contents Checklist Key

6 molds



instruction sheet



Illinois Fossils Trunk – Small Container Contents Checklist Key

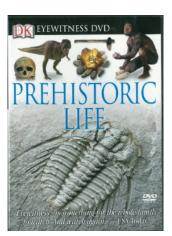
Ammonite

Cephalopod Ammonite

Eyewitness Prehistoric Life DVD

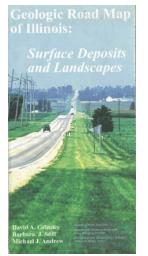






Illinois Fossils Trunk – Small Container Contents Checklist Key

Geological Road Map of Illinois map



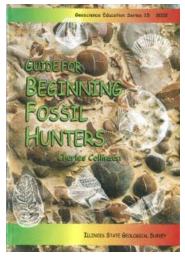
Illinois' Natural Resources Trading Cards Set 3 & 4

Golden Guide to Fossils book a Golden Guide® FROM ST. MARTIN'S PRESS FOSSILS FUlly Illustrated • Authoritative • Easy-to-Use



National Audubon Society: Field Guide to Fossils book

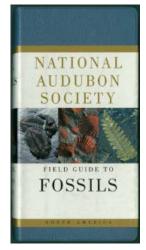
Guide for Beginning Fossil Hunters book



shark tooth



T-Rex tooth





Trilobite

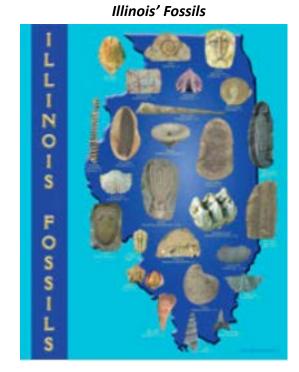




Illinois Fossils Trunk – Poster Key

Fossils of Illinois





Illinois' Natural Resources Trading Cards Set 3

