+	TEKS FOCUS: 7A Fossils as evidence of change in species
This	section explains how fossils form and how they can be interpreted. It also itself time scale that is used to represent evolutionary time.
	sils and Ancient Life (page 417)
	cientists who study fossils are called
2. V	Vhat is the fossil record?
3. V	Vhat evidence does the fossil record provide?
- 4. S	pecies that died out are said to be
5. Is	s the following sentence true or false? About half of all species that have ever lived or
E	arth have become extinct
Ho	w Fossils Form (page 418)
6. C	Eircle the letter of each sentence that is true about fossils.
a	. Most organisms that die are preserved as fossils.
b	. Fossils can include footprints, eggs, or other traces of organisms.
C	Most fossils form in metamorphic rock.
d	. The quality of fossil preservation varies.
7. F	Iow do fossils form in sedimentary rock?
_	
Into	erpreting Fossil Evidence (pages 418–420)
3. L	ist the two techniques paleontologists use to determine the age of fossils.
a	·
b	•
9. C	Eircle the letter of each sentence that is true about relative dating.
a	 It determines the age of a fossil by comparing its placement with that of fossils in other layers of rock.

Class___

Date ____

Name__

c. It allows paleontologists to estimate a fossil's age in years.

d. It provides no information about absolute age.

Naı	ne Date
10.	Is the following sentence true or false? Older rock layers are usually closer to Earth's
	surface than more recent rock layers
11.	s the following sentence true or false? Scientists use radioactive decay to assign
	absolute ages to rocks
12.	The length of time required for half of the radioactive atoms in a sample to decay is
	called a(an)
13.	The use of half-lives to determine the age of a sample is called
14.	How do scientists calculate the age of a sample using radioactive dating?
15.	s the following sentence true or false? All radioactive elements have the same half-life.

Geologic Time Scale (pages 421–422)

16. Fill in the missing eras and periods in the geologic time scale below.

GEOLOGIC TIME SCALE

Era								Pale	ozoic				
Period	Quaternary		Cretaceous		Triassic	Permian		Devonian		Ordovician		Vendian	
Time (millions of years ago)	1.8 – present	65 – 1.8	145 – 65	208 – 145	245 – 208	290 – 245	363 – 290	410 – 363	440 – 410	505 – 440	544 – 505	650 – 544	

20.	During which era did dinosaurs roam the Earth?
21.	During which era did mammals become common?