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	2001 Editon	I	Date	Per		
imp to u	Earth Science Reference Tables is undoubtedly your a ortant resource for the Earth Science Regents exam. A se it will be of critical importance in your performance a learning activity. If you are unable to answer any of the	nost knowledge of t . Please keep in	he information in the mind that comple	the ESRT and how ting this paper should		
> Ref	feremnce Tables; Page 1 ***********************************			***************************************		
OMILE.	How wide is this sheet of paper, to the nearest 0.1 cm ²	?	in meters	?		
2.	Which of the radioactive substances listed on this page	e has the shortes	st half life?			
3.	Write the half life of Uranium-238 as a standard number.					
4.	If you started with 100 g of K-40, how much would remain k-40 after 3.9 x 10 ⁹ years?					
5.	What common substance requires the most energy to heat up a unit mass by 10°C?					
6.	Which uses more energy, melting a 10 g ice cube or ev	aporating 10 g	of water?	8		
,, tist t	If I estimated a rock to have a volume of 20 cm ³ , but careful measurement showed it's true volume to be 25 cm ³ , what would be the percent deviation of my estimate? (Please show you work for items $5 \checkmark$ and $6 \checkmark$.)					
		8. What is the average gradient from A to B?	Camp Hill 400 X A Cave Creek 0 1 2 Di	B 300 Elevations in meters		
› Pag	ge 2					
9.	In what landscape region do you live?					
10.	What is the landscape region around Old Forge, NY?					
11.	The Catskill Mountains are a part of what larger landscape area?					
› Pag	ge 3	*****	******	*****		
12.	If you want to drive from Albany to Buffalo, what dire	ction must vou t	travel?			
		-				
13.	What are the approximate terrestrial coordinates of Wa	iertown, INY?				

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14.	What is the numerical age of the bedrock around	nd Syracuse, NY?		
15.	What is the metric distance from Syracuse to U	Itica?		
16.	As water flows from Lake Erie into Lake Ontain elevation is at Niagara Falls. What is the tota		·	
17.	Which kind of rocks are most common in the	Catskills?	- J	
18.	What New York landscape region has the olde	st bedrock?		
Pag	e 4	*****		******
19.	What ocean current keeps Europe relatively wa	rm?	<u></u>	
20.	How do local ocean currents affect the climate along the western coast of South America?			
21.	What major ocean current can be found at 50°S	S, 50°W?		·····
Pag	e 5			
22.	With respect to Africa, in what direction is Sou	th America drifting?		
23.	What kind of plate boundary is the Mid-Atlant	ic Ridge?		<u>innin Cinite</u> rion
24.	What is the major active fault in the Western U	nited States??	-	
25.	What has caused the growth of the Himalayan Mountains, north of India?	<u> </u>		
26.	Where is the nearest major mantle hot spot/plu	me?		
Page	e 6			
27.	What is the final step in the formation of sedim	ent?		
28.	What do we call sediment composed of particle	es 1 cm across?		
29.	How does gabbro differ from basalt?		<u>.</u>	· · · · · · · · · · · · · · · · · · ·
30.	What is the most abundant mineral in diorite?			
31.	How fast a stream current is required to transpo	ort the smallest bould	ers?	
32.	What five minerals are common in basalt?			
	At Your Finger Tips Page 2	C) Tr#G	Mon, May 27, 2002

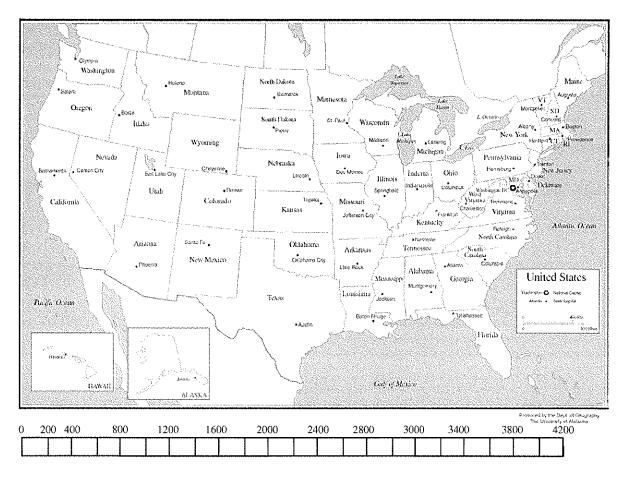
Page	e 7
33.	What minerals are most common in sandstone?
34.	Which clastic (fragmental) rock is composed of the smallest particles?
35.	What mineral is most abundant in rock salt? (The mineral is not called salt.)
36.	What mineral family is common in slate, phyllite, schist and gneiss?
37.	What is the texture of quartzite?
38.	What metamorphic rock is primarily composed of calcite?
Page	es 8 & 9
39.	When did North America split apart from Africa and Europe?
40.	How old is the Earth?
41.	What is the first period of the Paleozoic era?
42.	What two periods are <i>not</i> represented in the bedrock of New York?
43.	What animal group first evolved about the same time as the dinosaurs?
Page	e 10
44.	At what two depths within the Earth is the temperature above the melting point?
45.	What is Earth's radius in kilometers? What is its diameter?
46.	What is the composition of Earth's core?
47.	Which layer of the Earth is the least dense? Most dense;
48.	In what part of the Earth does the temperature increase fastest with depth?

Pages 11 49. What is the two most common element in the oceans? 50. How long does it take an S-wave to travel 6000 km? ______ ...a P-wave? ______ 51. How far away is the epicenter if the P-wave arrives 5 minutes before the S-wave? 52. What element makes up about 6% of crustal rocks by mass, but only ½% by volume? 53. How far can a P-wave travel in 5 minutes, 40 seconds? Pages 12 ******* 54. If the wet bulb reads 4° C and the dry bulb records 12° C, what is the dewpoint? 55. What is the relative humidity in the conditions specified above? 56. What does a negative dewpoint mean? Pages 13 57. What is the Kelvin temperature of 0° C? What is this temperature in Fahrenheit? 58. What is the normal atmospheric pressure in inches of mercury? 59. What is the Fahrenheit temperature at this weather station? _____ Celsius? _____ 60. What is the atmospheric pressure? ______ Is it rising or falling? _____ 61. Wind speed? _____ Wind direction? _____ Cloud Cover? _____ 62. A maritime tropical air mass is ______ and _____. (You should know this.) Pages 14 63. How does the air temperature change as you go higher within the mesosphere? 64. What name has been given to the boundary at the bottom of the atmosphere? 65. What form of electromagnetic energy has a wavelength just too long to be visible to us?

66. What is the approximate wavelength of visible light?

67.	What is the prevailing wind direction 45° south of the equator?
68.	Why is precipitation so abundant near the equator?
Pa	ges 15
69 <i>.</i>	Although Barnard's Star is relatively close to us, it is hard to see? Compared to the sun, how much light does Barnard's Star give off?
70.	The North Star is similar to the sun in and
	How is it very different?
71.	Rigel and Betelgeuse are two of the brightest stars in the prominent winter constellation Orion. How does Betelgeuse appear different from Rigel to us?
72.	Of the nine planets, which one spins the fastest on its axis?
73.	Which planet has the most out of round (flattened) orbit?
74	Which planet is closest to the Earth in size?
75.	Approximately how much larger is the sun's diameter than the diameter of the Earth?
Pa	ges 16
76.	What mineral has a nonmetallic luster, scratches glass and is often pink?
77.	Name two common minerals that are chemical elements and
78.	What is the most obvious difference between amphibole and pyroxene?
79.	What other minerals form crystals similar in shape to pyrite?
	GOOD. IT'S A MULTIFILE- CHOICE TEST.

Station Name	P-Wave Arrival Time (00:00:00)	S-Wave Arrival Time (00:00:00)	S - P Time (00:00:00)	Distance to Epicenter (Km)	P-Wave Travel Time (00:00:00)	Origin Time (00:00:00)
Atlanta, Ga	06:12:27	06:14:37				
Boise, Idaho	06:13:57	06:17:27			<u></u>	
Oklahoma City, Ok	06:10:57	06:12:07	******			



Station Name	P-Wave Arrival Time (00:00:00)	S-Wave Arrival Time (00:00:00)	S - P Time (00:00:00)	Distance to Epicenter (Km)	P-Wave Travel Time (00:00:00)	Origin Time (00:00:00)
Seattle	13:08:10	13:10:50	00:02:40	1600	00:03:20	13:04:50
Denver	13:07:35	13:09:50				
Anchorage	13:11:50	13:17:15				

Station 2 Fill in the chart and locate the earthquake epicenter on the map.

Put an X where the epicenter is located.

