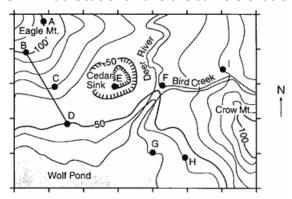
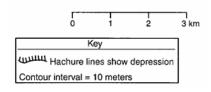
		<u>ciacy</u> in	ame: Date:	
Scie	ence Overview:			
1.	Which of the following is NOT in one of	f the main	areas of Earth Science?	
	a. Geology c. Oceanogra	aphy		
	b. Astrology d. Astronom	ıy		
2	Earth's four major spheres are the			
	a. Hydrosphere, atmosphere, geosphere, and biosphere			
	b. Hydrosphere, atmosphere, lithosphere, and biosphere			
	c. Hydrosphere, asthenosphere, lithosphere, and biosphere			
	d. Hydrosphere, geosphere, lithosphere, and asthenosphere			
3.	What is the driving force for the movement of the lithospheric plates?			
•	a. Heat from the sun		c. Heat in the atmosphere	
	b. Unequal distribution of heat within t	the Earth	•	
	·		·	
4.	Earth is considered a system because all of its parts			
	a. Represent separate closed systems			
	b. Interact	u.	Are powered by the same energy sources	
5.	Create a list of the four earth spheres a	ınd list two	o (2) areas of scientific study for each.	
5.	Create a list of the four earth spheres a Earth's Sphere	ind list two	o (2) areas of scientific study for each. Area of Scientific Study	
5.	<u> </u>	and list two		
5.	<u> </u>	1.		
5.	<u> </u>	1. 2.		
5.	<u> </u>	1.		
5.	<u> </u>	1. 2.		
5.	<u> </u>	1. 2. 1. 2.		
5.	<u> </u>	1. 2. 1. 2.		
5.	<u> </u>	1. 2. 1. 2.		
5.	<u> </u>	1. 2. 1. 2.		
5.	<u> </u>	1. 2. 1. 2. 1. 2.		

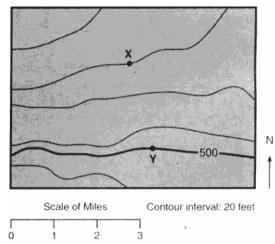
8. What locations have the same elevation?





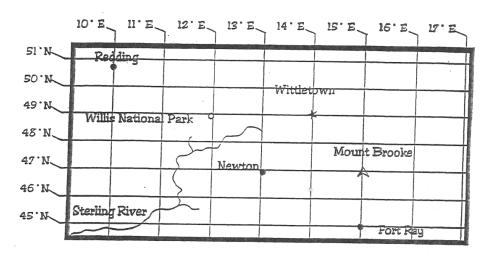
- a. A and E
- b. C and I
- c. D and H
- d. B and D

9. What is the approximate gradient between X and Y?



- a. 15 ft/mi
- b. 20 ft/mi
- c. 30 ft/mi
- d. 60 ft/mi

Use the following map below to answer the next seven (7) questions.



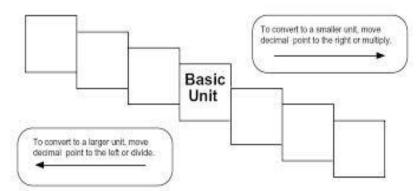
- **10.** What is located at 49° N latitude and 12° E longitude?
- 11. What two places are located at 15° E latitude? _____; _____;
- **12.** The city of Newton is located at _____° N and _____° E
- **13.** The city of Wittletown is located at _____ ° N and ____ ° E

14. What is located at 51° N latitude and 10° E longitude?

15. Lines of latitude run and parallel to the equator.

16. Lines of longitude run east and west of the _____

Metrics and Measurement:



17. 100,654 g = _____dg

20. 0.7737 mm = _____km

18. 307.345 cg = kg

21. 29.1 hL = mL

19. 9.9 mL = L

22. 2016 m = cm

Scientific Method:

23. What makes a hypothesis scientifically useful?

a. Many people think it is a good idea

c. It contains numerical data

b. It can be tested

d. It applies directly to Earth Science

24. In scientific inquiry, when competing hypotheses have been eliminated, a hypothesis may be elevated to the status of a scientific ______.

a. Estimate

c. Theory

b. Idea

d. Truth

25. A Horticulturist wants to determine if fertilizer speeds the growth of her tomato plant. She applies one teaspoon of fertilizer a month to one plant for one year, and none to the other over the same time span. Both plants are placed in under the same growing conditions including soil, access to sunlight and amount of water. What was the dependent variable in the experiment?

a. The fertilizer

c. The sunlight access

b. The rate of growth

d. The ambient temperature

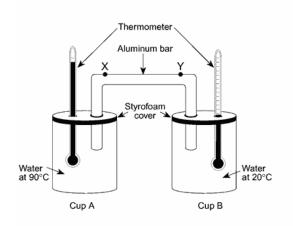
26. In the classroom during a visual inspection of a rock, a student recorded four statements about the rock. Which statement about the rock is an observation?

a. The rock was from the Precambrian Era

c. The rock is black and shiny

b. The rock formed deep underground

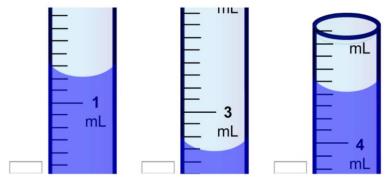
d. The rock cooled very rapidly



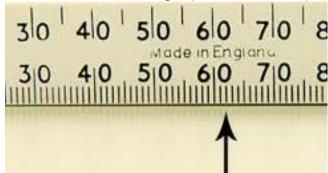
	Temperature of Water (°C)		
Minute	Cup A	Cup B	
0	90	20	
1	88	20	
2	86	20	
3	85	21	
4	83	21	
5	82	22	
6	81	22	
7	80	22	
8	79	22	
9	78	23	
10	77	23	
11	76	23	
12	75	23	
13	74	23	
14	73	23	
15	72	24	
16	71	24	
17	70	24	
18	69	24	
19	68	25	
20	67	25	

- 27. The rate of temperature change for water in cup A for the first 10 minutes is approximately
- a. 1.3°C/min
- c. 77°C/min
- b. 13°C/min
- d. 90°C/min

28. Read and record the volume (with correct unit) of each graduated cylinder:



29. Read and record the length (with correct unit) on the ruler:



30. Read and record the mass (with correct unit) on each triple beam balance:

