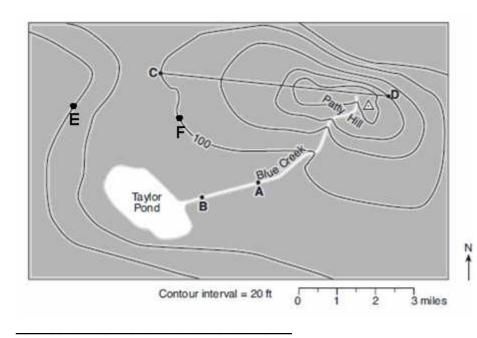
Name:	Period:	Date:
Earth Science Midterm Review		
Density:		
a. How do you find the volume of a regularly shaped object?		
b. How do you find the volume of an irregularly shaped object?		
What is the density of an object if .5 g occupies a volume of 100 ml? (formula UNITS)	– substitute –	answer with
,		
3. If a piece of aluminum has a density of 2.7 g/cm3, what is the density if each	piece if the oric	jinal is
cut in half?		
4. Mount Everest has risen 20 maters in the last 100 years. How many maters	did Mayot Eyer	oot unlift
 Mount Everest has risen 20 meters in the last 100 years. How many meters of in one year? (formula – substitute – answer with UNITS) 	aid Mount Ever	est upiiit
5. a. Write 56,000 in scientific notation.		
b. Write .00045 in scientific notation.		
Latitude, Longitude & Landscapes:		
6. Polaris is equal to your		
7. What is the name of the latitude reference line?		
8. What is the name of 0° and 180° longitude?	&	
9. What is the latitude and longitude of Binghamton, NY?		
10. What city is found at 42°N & 74° 15′ W?		
11. What landscape is Niagara Falls located in?		
12. Old Forge is composed of what type of bed rock?		
13. What city are you in if Polaris is located at 44°N?		

Topographic Maps:

Use the map to the right to answer the following questions.



- 14. What is the contour interval?
- 15. What is the highest elevation that the bench mark can be?
- 16. What direction is Blue Creek flowing? _____
- 17. How can you tell the direction Blue Creek is flowing?

- 18. Calculate the gradient between points A and B. (formula substitute answer with UNITS)
- 19. Construct a profile of line CD.



11. Please draw isolines for 10 m, 11 m, 12m and 13 m.

10	12	13	15	
9	10	12	13	
8	10	11	12	
10	11	12	13	

Minerals: (Page 16 of ESRT) 12. There are many ways to distinguish between minerals, such as: (define the following)				
a) Luster –				
b) Cleavage) –			
c) Fracture	_			
d) Streak –				
e) Hardness	S –			
Rocks: (Page 6 &	7 of ESRT)			
13. Describe how e	each rock type was formed and some	key words that identify each type.		
Type of Rock	How Formed	Physical Features		
Igneous				
Sedimentary				
Metamorphic				
14. What is the <u>rock cycle</u> :				
Weathering, Erosion & Water Cycle: (Page 6 of ESRT)				
15. Explain the difference between physical and chemical weathering?				
16. What is the relationship between surface area and weathering?				
17. What factor is responsible for all types of mass movement?				

18. What is soil comprised of?

19. Explain the following steps of the water cycle:
a. <u>Evaporation</u> –
d. <u>Transpiration</u> –
c. Condensation –
d. <u>Precipitation</u> –
e. <u>Runoff</u> –
f. <u>Infiltration</u> –
20. a) How fast does a stream have to move to carry the smallest pebble? b) What size particle(s) can a stream carry if it is moving at a stream velocity of 100 cm/sec? c) What is the size range for a grain of sand?
21. Label where erosion and deposition is occurring.
22. Draw the profile of this right meander.

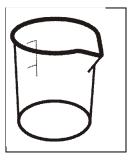
23. Place an \boldsymbol{X} where the stream velocity if greatest.

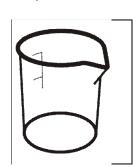
24. List and explain the erosional and deposition features associated with the following agents.

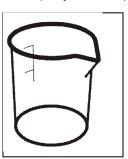
Agent	Sorted / Unsorted Rounded/ Angular	Features
Water		
Wind		
Glaciers		

Porosity and Permeability

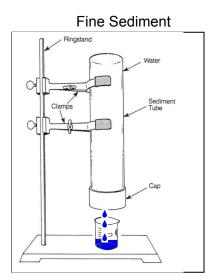
- 25. Define Porosity.
- 26. Porosity IS NOT affected by _____
- 27. Compare the amount of pore spaces in each container. (they have equal volumes of sediment)

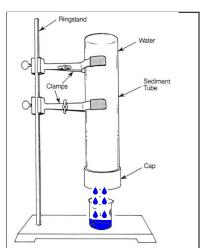


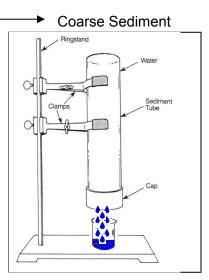




- 28. Define **Permeability**.
- 29. Using the diagrams below, explain the rate at which the water will infiltrate into each soil.







30. Using the diagram below, explain the zone of saturation, zone of aeration and water table.

Groundwater

