



NATURE[®]

NAME: _____

DATE: _____

1. What is the percentage of air in snow at the top of the glacier? 90%
2. What causes snowflakes to get closer to each other? _____
_____subsequent snowfall layers compact flakes_____
3. What is the percentage of air in snow after it has been compacted? 50%
4. What happens to the ice crystals as snow accumulates year after year?
ice crystals become more compressed and air spaces between crystals shrink
5. What is the percentage of air in the ice at its densest? 10%
6. What causes the ice crystal to make its journey through the glacier?
tremendous pressure from weight of the ice above
7. How is a warm glacier similar to an ice skate? _____
weight of ice creates thin layer of liquid water over which the glacier slides
8. Which moves faster, a warm glacier or a cold glacier? What factors affect the flow? warm glacier moves faster. Other factors – size, _____pitch of slope, temperature of ice_____
9. Describe two ways in which glaciers lose their mass.
calving (icebergs break off into ocean), melting, sublimation (water _____changes directly from solid into gas)_____