

100
Name _____ Date _____ Period _____ 5

Video – Going to Extremes

- 1) How do warm blooded animals regulate body temperature?
- 2) What is the relationship between cold blooded animals and their surroundings?
- 3) At what temperature does most fish blood freeze?
- 4) How cold can the water temperature become?
- 5) Why is this a problem for the fish?
- 6) Why doesn't the flounder freeze at these extremely cold temperatures?
- 7) What triggers the production of the protein?
- 8) What is the difference between the "summer blood" and the "winter blood" at -18 degrees Celsius? Why?
- 9) How can fish antifreeze be beneficial to humans?
- 10) What is the biggest problem with freezing organs?
- 11) What happens to human blood as it freezes?

- 12) What happens to Canadian wood frogs in the winter?
- 13) What is the difference between hibernation and freezing?
- 14) How much of the frogs body is completely frozen?
- 15) What happens to all the blood?
- 16) What is the first thing seen in a thawing frog?
- 17) What happens when ice crystals start to form on the skin?
- 18) What is the purpose of glucose?
- 19) Which organ freezes last? Why?
- 20) How does the frog thaw?
- 21) How does this film relate to colligative properties?