



Ask a question

1. Question:

Include:
Homeostasis
Temperature
Ectothermic
Speed

Does temperature effect turtle speed?

Do background research

2) Research: See Back

Thermal Influences on the Swimming Speed of Loggerhead Turtle Hatchlings James O'Hara, Copeia, Vol. 1980, No. 4 (Dec. 5, 1980), pp. 773-780

Effects of Temperature on Voluntary Locomotion of the Eastern Box Turtle, Terrapene carolina Carolina. Nadine A. Adams et. Al., Copeia, Vol. 1989, No. 4 (Dec. 27, 1989), pp. 905-915

Effects of Slope, Substrate, and Temperature on the Locomotion of the Ornate Box Turtle, Terrapene ornate. Dennis L. Claussen et. Al. Copeia, Vol. 2002, No. 2 (May 21, 2002), pp. 411-418

Read and summarized 3 scientific papers, see above

Construct a hypothesis

3) Hypothesis:

If **If water temp increases (to a certain point (in box turtles it was 33'C)**

Then **Then turtle speed increases**

Because **Because ectothermic animals metabolism depends on the external environment**

Test your hypothesis by doing an experiment

4) Test Hypothesis:

1. Method – how are you going to collect data?

2. What will your exp. Look like?

5) Analyze your data:

1. Make data collection sheets

Analyze your data and draw a conclusion

6) Results/Conclusion:

Report your results.
Was your hypothesis
correct?

