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Day 21 Apr 09 Intern: Animal biological adaptations to thermal environment

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### 21.0.A Daily Outline

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**April 9, 2015**

**Class Agenda:**

Today we will be exploring animal adaptations to temperature and thinking about how these adaptations affect heat transfer. You read some articles that provided an introduction to these concepts and wrote down some of your own ideas. We are going to pick up from there and put your knowledge into action.

**1.) Determine roles:**

Manager: keep track of time and facilitate forward progress. We have a lot to do today!

Spokesperson: if anyone has not yet had an opportunity to present (or had few), today is your day. If multiple people want to present, that is fine.

Recorder: you know the drill by now

Reflector: record any questions that the group develops on the question bank

**2.) Discussion: 5-7 minutes**

Briefly discuss your responses to the preclass assignment and any other interesting thoughts from the readings. This is also an opportunity to raise questions amongst each other or record them on the question bank.

**3.) Challenge: 40 minutes**

Each group has been given a challenge question about an animal adaptation to temperature that will require you to interpret real data from published scientific papers and integrate it with your knowledge about heat and chemistry. Each group will produce a poster to present to the class.

**4.) Research conference: 25 minutes**

**5.) Wrap up: 5-10 minutes**

This is an opportunity to ask questions, make observations, and discuss what we've thought about today.

**6.) Homework:**

I will ask each of you to answer a brief question as a follow-up to today's activity to push your thinking a little further.