

# Biology II/Unit 10 Study Guide

## bio2u10sg Entomology

Text Resource: 741-757

Web Resource: "Chemistry of Bees" <http://www.chm.bris.ac.uk/webprojects2001/loveridge/>

### Study Objectives/Questions

1. **Taxonomy (Domain to Species)**
2. **Evolution (cladistics/origins/adaptations)**
3. **Genes (role of genes)**
4. **Ethology (learned/innate/communication)**
5. **Heredity (reproduction)**
6. **Homeostasis (individual bees vs hive)**
7. **Biochemistry (honey/pollen/propolis)**
8. **Ecology (interactions)**

**Vocabulary** - what words/concepts get in the way of your understanding? Make a list of all the terms/concepts that you do not understand from this unit.

### Assignments

- **Reading:**
  - Modern Biology pages 741-757
  - Carbohydrates and the Sweetness of Honey (article)
  - Composition of Honey (article)
  - Chemical Analysis of Honey Bee Pollen (article)
  - Notions About Bees (article)
- **Notebook 10pts**
  - \_\_\_\_\_ Study objectives Notes/Understandings (6pts)
  - \_\_\_\_\_ VG "Tales from the Hive" (2pts)
  - \_\_\_\_\_ Cmap – improve the one you are given (2pts)
- Knowledge **Quiz 1** (SO1/2) **6pts**
- Knowledge **Quiz 2** (SO3/4) **6pts**
- Knowledge **Quiz 3** (SO5/6) **6pts**
- Knowledge **Quiz 4** (SO7/8) **6pts**
- Entomology **Exam 20pts**

*Some Scientist think that 30% of the animal biomass of the Amazon Basin is made up of ants, and that:-- 10% of the animal biomass of the world is ants, furthermore they believe another 10% is composed of Termites. This means that 'social insects' could make up an incredible 20% of the total animal biomass of this planet.*