

Lab 2 To Do List

Lab Manual Exercise 3

Care & Feeding of the Compound Microscope – Procedure 1 — know parts (Fig 3.1), what they do (will be on practical), total magnification.

Microscope Use – Procedures 2-5 — carry out all of the procedures except that we will **not** use the oil immersion lens.

Note that instead of a grid slide, we will use a micrometer slide (or we could use plastic rulers?)

Remind students that they will need their cheek smear wet mount for Exercise 4 (they should do this right away)

Lab Manual Exercise 4

Skip activities 1-4 (this material will be covered in lecture)

Activity 5: Examples of Cells — Use prepared slides (blue boxes on lab bench), except for the squamous epithelium, for which use cheek smear wet mount (don't let slide dry out, however).

Activity 6: Whitefish mitosis — Be able to recognize each stage and know key events at each stage. Do not need to distinguish early from late.

Use the magnetic beads instead of the chenille sticks (pipe cleaners) to simulate mitosis.

Osmosis Supplement

Carry out both listed procedures You should start this first, and then proceed to other exercises while waiting between weighings.

Exercise 3 Questions

General Questions: Answer all questions on pp 30-34, including the chart, except for the sections on oil immersion.

Answer **Review Questions 1-3** (but should be able to answer the rest as well)

Exercise 4 Questions

General Questions: Answer all questions on pp 44-45 (Activity 5); demonstrate mitosis to your instructor using magnetic popbeads (Activity 6, pg 48).

Answer **Review Questions 8-9, 11-12**

Osmosis Supplement

Answer all questions on pages 2-3. If time permits, answer the questions on page 4