

Biology Regents Review

Lab Equipment & Techniques

1. Scientific Method

- a. Research
- b. Question/problem
- c. Form a hypothesis
- d. Experiment
 - i. **Control group**- all parts of the experiment except what is being tested
 - ii. **Variable group**- all parts of the experiment including the variable (what you are testing)
- e. 2 types of variables
 - i. **Independent variable**- what you control
 - ii. **Dependent variable**- depends on the variable- meaning you have no control over it. This is what you are testing for
- f. Data- arrange data to make comparisons
 - i. Graphs- bar graphs, line graphs
 - ii. Tables
- g. Peer review/repeat experiment

2. Theory- scientific explanation supported by data

3. Microscope

- a. Focus on low power first
- b. Switch from low to high field and the view becomes smaller
- c. Images are reversed and inverted (upside down and backwards)
- d. **Total magnification**= power of eyepiece X power of objective

4. Chromatography- used to separate substances in a mixture (EC: plant pigments)

5. Gel electrophoresis- used to separate charged molecules of different sizes (EC: used to separate DNA)

6. Measurement

- a. Volume = Liters = **Graduated Cylinder** (read along the meniscus, curved line)
- b. Mass = grams = **triple beam balance**
- c. Length = meters = **ruler**

7. Indicators and Stains

- a. **Litmus paper** - measures pH
 - i. Red = acid
 - ii. Blue = base
- b. **Bromothymol blue** - shows CO₂
 - i. Yellow = CO₂
- c. **Iodine** - turns blue/black in the presence of starch
- d. **Benedict's**- tests for simple sugar. Red-orange or brick-red
- e. **Methylene blue** - stain used to make cells more visible

Cells & Cellular Activity

Bio Exam Review Guide Packet

Jessica J Manson



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