

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

Biology Regents Exam Practice

Puja Mehta



Biology Regents Exam Practice:

Reviewing **Biology Regents Exam Practice**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Biology Regents Exam Practice**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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