

# Biology Regents Review

## Lab Equipment & Techniques

### 1. Scientific Method

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

### 2. **Theory**- scientific explanation supported by data

### 3. **Microscope**

- Focus on low power first
- Switch from low to high field and the view becomes smaller
- Images are reversed and inverted (upside down and backwards)
- 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**

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

### 7. **Indicators and Stains**

- Litmus paper** - measures pH
  - Red = acid
  - Blue = base
- Bromothymol blue** - shows CO<sub>2</sub>
  - Yellow = CO<sub>2</sub>
- Iodine** - turns blue/black in the presence of starch
- Benedict's**- tests for simple sugar. Red-orange or brick-red
- Methylene blue** - stain used to make cells more visible

## Cells & Cellular Activity

# Regents Biology Packet Answers

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