

## Tonicity and Osmoregulation Wet Lab

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- 4 pieces of dialysis tubing
- Glucose solution
- Starch solution
- Benedict's reagent
- AP biology formula sheet
- 4 Beakers (200 mL)
- Iodine
- Tap Water
- Access to the internet
- Timer or stopwatch

## Cell Size Wet Lab

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- Plastic knife
- Agar
- Ruler
- 200 ml of 0.1 M NaOH
- Beaker (400 ml)
- Tong or spoon
- Paper towel
- Calculator
- Timer or stopwatch
- AP biology formula sheet

## Enzyme Activity Wet Lab

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- Peroxidase solution
- Timer
- Graduated pipettes
- Hydrogen peroxide (0.1%)
- Color chart
- Guaiacol
- Distilled water
- Test tubes and test tube rack
- pH solution
- Safety goggles

## Photosynthesis Wet Lab

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- Baking soda
- Timer
- 2 plastic syringes
- Hole punch
- Fresh spinach leaves
- Liquid soap solution (5 mL in 250 mL water)
- Water
- Light source
- 2 clear plastic cups

## Mitosis and Meiosis Wet Lab

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- Prepared onion root tip slides (normal and lectin treated)
- Compound light microscope
- Calculator
- Formula sheet
- Modeling materials

## Biotechnology Wet Lab

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- DNA samples (prepared with restriction enzymes)
- Gel electrophoresis chamber
- Power supply
- Gloves
- Safety goggles
- Transfer pipettes

## Energy Flow through Ecosystems Wet Lab

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- 40–50 fast plant seeds
- Scale
- Drying oven
- Calculator
- Planters
- Water
- Soil

## Response to the Environment Wet Lab

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- 2 plastic bottles
- 6–8 plastic bottle caps
- Clear tape
- Scissors
- Safety goggles
- Cotton balls
- 30–40 fruit flies
- Samples (about 20 mL) of testing substances
- Timer
- 6 pipettes