

Life Science

Introduction and Lab Safety

What to Expect

- Classroom
 - Haiku/Net Texts/Notability
 - Reading
 - Written assignments
 - Note taking and discussion
- Lab
 - “Hands on”
 - Safety first!

Scientific Method vs Science Practices

Scientific Method

- Question
- Research
- Hypothesis
- Experiment
- Analyze/interpret data
- Conclusions

Science Practices

- Interpret situation
- Make inferences
- Justify predictions
- Evidence-based explanation

Lab Safety Rules

- Make sure you understand all instructions and procedures before you start
- Wear proper safety gear
- Know what the safety symbols mean
- Know where the first aid equipment is located
- Immediately notify teacher of accidents/emergencies
- NEVER work alone
- NO food or drink
- Treat living organisms /preserved specimens with respect

Lab Safety Symbols

Disposal Alert



This symbol appears when care must be taken to dispose of materials properly.

Biological Hazard



This symbol appears when there is danger involving bacteria, fungi, or protists.

Open Flame Alert



This symbol appears when use of an open flame could cause a fire or an explosion.

Thermal Safety



This symbol appears as a reminder to use caution when handling hot objects.

Sharp Object Safety



This symbol appears when a danger of cuts or punctures caused by the use of sharp objects exists.

Fume Safety



This symbol appears when chemicals or chemical reactions could cause dangerous fumes.

Electrical Safety



This symbol appears when care should be taken when using electrical equipment.

Plant Safety



This symbol appears when poisonous plants or plants with thorns are handled.

Animal Safety



This symbol appears whenever live animals are studied and the safety of the animals and the students must be ensured.

Radioactive Safety



This symbol appears when radioactive materials are used.

Clothing Protection Safety



This symbol appears when substances used could stain or burn clothing.

Fire Safety



This symbol appears when care should be taken around open flames.

Explosion Safety



This symbol appears when the misuse of chemicals could cause an explosion.

Eye Safety



This symbol appears when a danger to the eyes exists. Safety goggles should be worn when this symbol appears.

Poison Safety



This symbol appears when poisonous substances are used.

Chemical Safety



This symbol appears when chemicals used can cause burns or are poisonous if absorbed through the skin.

Scientific Measurements

- Distance
 - Meter (m)
 - Kilometer (km)
 - Centimeter (cm)
 - Millimeter (mm)
- Mass
 - Kilogram (kg)
 - Gram (g)
 - Milligram (mg)