

Mansfield Independent School District
Sixth Grade – Science
Assurances

By the end of the sixth grade, students will be able to:

- Gather, analyze and interpret information using selected equipment and tools to extend the senses, including graduated cylinders, beakers, calculators, microscopes, computers and computer probes, hand lenses, metric rulers, thermometers, compasses, hot plates meter sticks, timing devices, weather instruments, petri dishes, spring scales, balances, and telescopes.
- Plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting and using equipment and technology.
- Collect, analyze, and interpret information to construct reasonable explanations from direct and indirect evidence.
- Communicate valid conclusions by constructing graphs, tables, and charts with the correct positioning of X and Y axis.
- Identify independent and dependent variables in an experiment.
- Analyze different representation of the same data.
- Conduct field and laboratory investigations using safe, environmentally appropriate and ethical practices (including safe handling of equipment, use of protective eyewear, following verbal and written directions, and practice of safety drills effectively.)
- Build and expand vocabulary, through a print rich environment, to increase fluency and understanding by incorporating scientific vocabulary into their everyday speaking, listening, and writing routines.
- Evaluate their own work and the work of others.