Reavis High School
Curriculum Snapshot/Cover Page for Energy and Technology

Unit 1: Technology: What is it?

3 Days	Students will acquire an understanding of what technology is and how it affects our society. Students will explore why technology is dynamic and how technology constantly improves upon previous technological devices and systems.

Unit 2: Energy: What is it?

3 - 5 Days	Students will understand that energy has six specific forms. Through lab sequences, all energy forms will be explored by students and projects will enable students to grasp how each energy is used by society.

Unit 3: Sources of Energy

7 - 10 Days	Students will explore the seven different sources of energy. Studernts will understand that some sources are renewable and some are exhaustible. Modern alternative energy sources will also be studied.

Unit 4: Technical Reading

3 - 5 of Days	Students will be introduced to technical readings including work orders and blueprints. Sudents will practice reading technical manuals and work orders. Labs will allow students to follow through the technical readings with specifically designed energy assignments.

Unit 5: Layout and design

3 - 5 of Days	Students will be introduced to a memo. They will follow the memo's instructions and create a thumbnail design which will later be built in a lab. Students will gain valuable work experience following the memo's instructions and turning the written word into a concrete design and product.

Unit 6: Electricity

8 - 10 Days	Students will explore the basics of the nature of matter and electricity and how it works. Students will be given the opportunity to complete hands-on electrical lab activities. Safety will be stressed in lab activities.

Unit 7: Electronics

8 Days	Students will explore basic electronics through hands-on labs. Students will gain an understanding of direct current electricity. Breadbords and soldering skills will be practiced. Safety will be stressed in all lab activities.

Unit 8: Housewiring

8 Days	Students will gain an understanding of how alternating current electricity works. They will explore house-wiring through electrical labs which include receptacle, outlet and switch installations. Electrical safety will be practiced in all lab activities.

Unit 9: Engines: How do they work?

10 - 14 Days	Students will explore the different types of engines and how they work. Two and four stroke theory will be covered. Electrical motors will also be explored. Students will learn to design a car body and build a prototype, testing it in a wind-tunnel.

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Unit 10: Rockets: How Do They Work?

8 - 10 Days	Students will understand the dynamics of rockets and how they fly. They will explore the history of rocketry. Students will explore the nuances of aerodynamics, drag and lift. Students will design and build a rocket which will be launced in a lab exercise.

Unit 11: Transportation Systems

3 - 5 Days	Students will explore the different types of transportation systems including and, ea and air. Students will research and understand the changing energies used in the system. Students will be exposed to alternative energy sources used in some forms of transport.

Unit 12	
3 Days	Students will explore new cutting edge technology which will supply energy to the future generations. Rockets packs and flying cars will be explored. Students imaginations will be excited with a future in technology Assessments will be through quizzes.