

5th Grade Scope and Sequence

| INTRODUCTION TO ELECTRICITY | | | |
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| Instructional Sequence | Activity Title | Benchmarks Addressed | Instructional Resources |
| 1 | Building a Circuit Lab | SC.5.P.10.4 | Lesson Plan: Building a Simple Circuit |
| 2 | Related Web Resources: | | https://www.youtube.com/watch?v=HOFp8bHTN30 |
| | | | https://www.youtube.com/watch?v=dVgDcYhZUaA |
| | | | https://www.youtube.com/watch?v=js7Q-r7G9ug |

| FORMS OF ENERGY | | | |
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| Instructional Sequence | Activity Title | Benchmarks Addressed | Instructional Resources |
| 1 | Class Write Around | LAFS.5.RI.2.4 | Lesson Plan: Class Write Around PowerPoint |
| 2 | Scavenger Webquest | SC.5.P.10.1/LAFS.5.RI.3.7 | Lesson Plan: Forms of Energy Webquest |
| 3 | Vocabulary Charge | LAFS.5.RI.2.4 | Lesson Plan: Vocabulary Charge Game and Cards |
| 4 | Math Mania | MAFS.5.NBT.2.5 | Lesson Plan Section: "Math Mania" |

| UNDERSTANDING CHARGES | | | |
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| Instructional Sequence | Activity Title | Benchmarks Addressed | Instructional Resources |
| 1 | Classroom Carousel Discussion | LAFS.5.SL.1.1 | Lesson Plan: Classroom Carousel Discussion |
| 2 | Static Electricity Lesson | SC.5.P.10.3 | Lesson Plan: Exploring Electrical Forces Lab |
| | | | Lesson Plan: Balloons and Static Electricity Lab |
| | | | Lesson Plan: Separating Salt & Pepper with Static Electricity |
| 4 | Testing for Conductivity with Different Conductors and Insulators | SC.5.P.11.2 | Lesson Plan: Testing for Conductivity with Different Conductors and Insulators |
| 4 | Math Mania | MAFS.5.NBT.2.7 | Lesson Plan Section: "Math Mania" |
| 5 | Related Web Resources: | | http://thekidshouldseethis.com/post/the-science-of-static-electricity-ted-ed |
| | | | https://www.dkfindout.com/us/science/electricity/conductors-and-insulators/ |
| | | | http://www.physics-chemistry-interactive-flash-animation.com/electricity_electromagnetism_interactive/electric_conductors_insulators.htm |

| ELECTRICAL CIRCUITS AND ENERGY TRANSFORMATIONS | | | |
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| Instructional Sequence | Activity Title | Benchmarks Addressed | Instructional Resources |
| 1 | Intro to Energy Transformations | SC.P.5.10.4/SC.P.11.1 | Energy Transfers and Transformations Animation Video |
| 2 | Energy Transformation Worksheet | SC.P.5.10.4 SC.5.P.11.1 | Lesson Plan: Electrical Circuits and Transformations |
| | | | Lesson Plan: Energy Transformations |
| | | | Energy Transformation Worksheet - ANSWER KEY |
| 3 | Glow Stick Lab | SC.5.P.11.1 | Lesson Plan: Chemical Energy - Glow Stick Lab |
| | | | PDF: Chemical Energy - Glow Stick Lab - What Happened? |
| 4 | Math Mania | MAFS.5.NBT.2.7 | Lesson Plan Section: "Math Mania" |
| 5 | Related Web Resources: | | https://www.youtube.com/watch?v=9qvZ-LfKPBO |
| | | | https://seureservercdn.net/198.71.190.232/phc.41b.myftpupload.com/wp-content/uploads/2019/06/NEED-Glow-Stick-Lab.pdf |

| FORCE AND MOTION OF AN OBJECT | | | |
|-------------------------------|------------------------|----------------------|--------------------------------------|
| Instructional Sequence | Activity Title | Benchmarks Addressed | Instructional Resources |
| 1 | Science Vocabulary Map | LAFS.5.RI.2.4 | Lesson Plan: Science Vocabulary Maps |
| | | | Vocabulary Map Printout |
| 2 | Tug of War Activity | SC.5.P.13.1 | Lesson Plan: Tug of War Activity |
| | | | Tug of War Activity Printout |
| 3 | Balloon Rockets | SC.5.P.13.1 | Lesson Plan: Balloon Rockets |
| | | | Balloon Rockets Lab Sheet Printout |
| 4 | Math Mania | MAFS.5.NBT.2.7 | Lesson Plan Section: "Math Mania" |