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|  | **Standards** | **Cross Cutting Concepts** | **Core Ideas** | **Science and Engineering Practices** | **Anchoring Phenomenon** |
| **1st TRIMESTER** | **Introduction****All Physical Science GSE****Properties of Matter**

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|  **SPS1**a,b,c; **SPS2**a,b,c; **SPS7**a  |

**Reactions**

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| **SPS5**a,b; **SPS3**a,b; **SPS6**a,b,c,d,e; **SPS7**a  |

**Waves**

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|  **SPS7**a; **SPS9**a,b,c,d,e  |

**Force and Motion**

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| **SPS7**a; **SPS8**a,b,c,d  |

**Energy**

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| **SPS4**a,b,c; **SPS10**a,b,c; **SPS7**a,b,c,d  |

**Energy Capstone****All Physical Science GSE** |  All

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|  Structure and function  Patterns  Scale, proportion and change  Energy and matter  |

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|  Energy and matter  Stability and change  Energy and matter

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|  Patterns  Energy and matter  |

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|  Cause and effect  Systems and system models  Stability and change  Energy and matter  |
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 Energy and matter  Systems and system models  Stability and change  Energy and matter

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|  Systems and system models  Cause and effect  Energy and matter  |

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| All

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|  Structure of atoms and elements  Trends in the Periodic Table  Compounds: properties, bonds and naming  |

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|   Atomic and molecular motion  Conservation of matter  Solutions  Acids and bases  |

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|  Electromagnetic and mechanical waves  Reflection, refraction, interference, and diffraction  Doppler effect  Energy  |

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|  Forces and motion  Newton’s laws  Simple machines  Gravitational force  Energy  |

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|  Heat energy  Electricity and magnetism  Nuclear energy  Fission and fusion  Radioactive decay  Energy transformations |

  All |

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|  Plan and carry out investigations  Ask questions  Develop and use models  |
|  Develop and use models  Analyze and interpret data  Construct explanations  |
|  Plan and carry out investigations  Develop and use models  Ask questions and design problems  Analyze and interpret data  Construct explanations |
|  Analyze and interpret data  Ask questions  Develop and use models  Construct explanations  |
|  Plan and carry out investigations  Construct explanations  Analyze and interpret data  Use mathematical and computational thinking  Develop and use models  Use mathematical and computational thinking  Engage in argument from evidence  Construct explanations  Analyze and interpret data  Plan and carry out investigations |
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All | Operation of a car or rocket

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| Elements and compounds to make a car or rocket operate <https://goo.gl/LODHSo>  |

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| Changes in altitude affect gases, resulting in surprising effects <https://goo.gl/mbgKv8>  |

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|   Doppler Effect <https://goo.gl/Gv6Mw7>  |

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| Car stop - seatbelts and airbags <https://goo.gl/aiFnyY>  |

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Turning on your classroom lights requires many transformations of energy <https://goo.gl/9IIwL0>

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|  Model and explain the operation of a car or rocket  |

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| **2nd TRIMESTER** |
|  **3rd TRIMESTER**  |

**Laurens County Schools Physical Science Curriculum Map**



(15 days)