The following document is a checklist for teachers to use as a resource in teaching the Louisiana Student Standards.

Louisiana Student Standards Checklist 2017-2018

Grade 4 Science

Morehouse Parish Elementary Curriculum Department

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| **Louisiana Student Standards Checklist for Science****Grade 4** |
|  | **Date Taught** | **Date Taught** |
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|  **ENERGY** |

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|  4-PS3-1 Use evidence to construct an explanation relating the speed of an object to the energy of that object.  |

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| 4-PS3-2Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.  |

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| 4-PS3-3 Ask questions and predict outcomes about the changes in energy that occur when objects collide.  |

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| 4-PS3-4 Apply scientific ideas to design, test, and refine a device that converts energy from one form to another.  |

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| WAVES AND THEIR APPLICATIONS IN TECHNOLOGIES FOR INFORMATION TRANSFER  |
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| 4-PS4-1 Develop a model of waves to describe patterns in terms of amplitude and wavelength and to show that waves can cause objects to move.  |

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| 4-PS4-2 Develop a model to describe that light reflecting from objects and entering the eye allows objects to be seen.  |

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| FROM MOLECULES TO ORGANISMS: STRUCTURE AND PROCESSES  |
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| 4-LS1-1 Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.  |

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| 4-LS1-2 Construct an explanation to describe how animals receive different types of information through their senses, process the information in their brains, and respond to the information in different ways.  |

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| EARTH’S PLACE IN THE UNIVERSE  |
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| 4-ESS1-1 Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in landforms over time.  |

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| EARTH’S SYSTEM  |
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| 4-ESS2-1 Plan and conduct investigations on the effects of water, ice, wind, and vegetation on the relative rate of weathering and erosion.  |

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| 4-ESS2-2 Analyze and interpret data from maps to describe patterns of Earth’sfeatures.  |

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| 4-ESS2-3 Ask questions that can be investigated and predict reasonable outcomes about how living things affect the physical characteristics of their environment.  |

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| EARTH AND HUMAN ACTIVITY  |
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| 4-ESS3-1 Obtain and combine information to describe that energy and fuels are derived from renewable and non-renewable resources and how their uses affect the environment.  |

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| 4-ESS3-2 Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.  |

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