1st Grade Science Curriculum & Pacing Guide

Content Area: Science	Grade Level: 1st	
Title of Unit: Space Systems: Patterns and Cycles Foss Kit: Air and Weather	Number of Weeks/Days: 9 Weeks	
Standards:	Assessment:	Resources:
1-ESS1-1 Use observations of the sun, moon, and stars to describe patterns that can be predicted.	Teacher Observations Student Participation Foss Kit Assessment	Foss Air and Weather Curriculum Investigation 1 “Exploring Air” Investigation 2 “Observing the Sky” Investigation 3 “Wind Explorations” Investigation 4 “Looking for Change” Student Edition & Online Resources Resources: https://www.nextgenscience.org/ https://thinklink.schoolspecialty.com/login
1-ESS1-2 Make observations at different times of year to relate the amount of daylight to the time of year.		

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Content Area: Science	Grade Level: 1st	
Title of Unit: Waves: Light and Sound	Number of Weeks/Days:	
Standards:	Assessment:	Resources:
1-PS4-1 Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.	Teacher Observations Student Participation	
1-PS4-2 Make observations to construct and evidence-based account that objects can be seen only when illuminated.		
1-PS4-3 Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. **1-PS4-4** Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance.		

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Content Area: Science	Grade Level: 1st	
Title of Unit: Structure, Function and Information Processing	Number of Weeks/Days:	
Standards:	Assessment:	Resources:
1-LS1–1 Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.	Teacher Observations Student Participation	
1-LS1–2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. **1-LS3–1** Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.		

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Content Area: Science	Grade Level: 1st	
Title of Unit: S News Observing Squirrels	Number of Weeks/Days: Week 4	
Standards:	Assessment:	Resources:
1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 1-LS3-1 Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.		

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 5	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 6	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit: S News Pumpkins	Number of Weeks/Days: Week 7	
Standards:	Assessment:	Resources:
1-LS3-1 Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.		

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Content Area: Science	Grade Level: 1st	
Title of Unit: S News Creepy Caves	Number of Weeks/Days: Week 8	
Standards:	Assessment:	Resources:
S News Creepy Caves		

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 9	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 10	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 11	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit: S News Hibernation	Number of Weeks/Days: Week 12	
Standards:	Assessment:	Resources:
1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.		

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Content Area: Science	Grade Level: 1st	
Title of Unit: S News Arctic Animals	Number of Weeks/Days: Week 13	
Standards:	Assessment:	Resources:
1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 1-LS3-1 Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.		

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Content Area: Science	Grade Level: 1st	
Title of Unit: S News Ice and Snow	Number of Weeks/Days: Week 14	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 15	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 16	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit: Waves: Light and Sound – Earth's Place in the Universe	Number of Weeks/Days: Week 17	
Standards:	Assessment:	Resources:
-PS4-1 Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. 1-PS4-2 Make observations to construct an evidence-based account that objects can be seen only when illuminated. 1-PS4-3 Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. 1-PS4-4 Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. * 1-ESS1-1 Use observations of the sun, moon, and stars to describe patterns that can be predicted. 1-ESS1-2 Make observations at different times of year to relate the amount of daylight to the time of year. ** K-2-ETS1-1 Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. K-2-ETS1-2 Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. K-2-ETS1-3 Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.		

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Content Area: Science	Grade Level: 1st	
Title of Unit: Waves: Light and Sound – Earth's Place in the Universe	Number of Weeks/Days: Week 18	
Standards:	Assessment:	Resources:
-PS4-1 Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. 1-PS4-2 Make observations to construct an evidence-based account that objects can be seen only when illuminated. 1-PS4-3 Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. 1-PS4-4 Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. * 1-ESS1-1 Use observations of the sun, moon, and stars to describe patterns that can be predicted. 1-ESS1-2 Make observations at different times of year to relate the amount of daylight to the time of year. ** K-2-ETS1-1 Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. K-2-ETS1-2 Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. K-2-ETS1-3 Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.		

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Content Area: Science	Grade Level: 1st	
Title of Unit: Waves: Light and Sound – Earth's Place in the Universe	Number of Weeks/Days: Week 19	
Standards:	Assessment:	Resources:
-PS4-1 Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. 1-PS4-2 Make observations to construct an evidence-based account that objects can be seen only when illuminated. 1-PS4-3 Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. 1-PS4-4 Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. * 1-ESS1-1 Use observations of the sun, moon, and stars to describe patterns that can be predicted. 1-ESS1-2 Make observations at different times of year to relate the amount of daylight to the time of year. ** K-2-ETS1-1 Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. K-2-ETS1-2 Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. K-2-ETS1-3 Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.		

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 20	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 21	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit: Valentine's Experiments – review scientific method	Number of Weeks/Days: Week 22	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit: From Molecules to Organisms Heredity	Number of Weeks/Days: Week 23	
Standards:	Assessment:	Resources:
1-LS1-1 Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs. * 1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 1-LS3-1 Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents. K-2-ETS1-1 Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. K-2-ETS1-2 Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. K-2-ETS1-3 Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.		

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Content Area: Science	Grade Level: 1st	
Title of Unit: From Molecules to Organisms Heredity	Number of Weeks/Days: Week 24	
Standards:	Assessment:	Resources:
1-LS1-1 Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs. * 1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 1-LS3-1 Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents. K-2-ETS1-1 Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. K-2-ETS1-2 Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. K-2-ETS1-3 Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.		

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Content Area: Science	Grade Level: 1st	
Title of Unit: From Molecules to Organisms Heredity	Number of Weeks/Days: Week 25	
Standards:	Assessment:	Resources:
1-LS1-1 Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs. * 1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 1-LS3-1 Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents. K-2-ETS1-1 Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool. K-2-ETS1-2 Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem. K-2-ETS1-3 Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.		

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 26	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit: Baby Animals	Number of Weeks/Days: Week 27	
Standards:	Assessment:	Resources:
1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 1-LS3-1 Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.		

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 28	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit: S News Plant Science	Number of Weeks/Days: Week 29	
Standards:	Assessment:	Resources:
1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 1-LS3-1 Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.		

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Content Area: Science	Grade Level: 1st	
Title of Unit: S News Rabbits	Number of Weeks/Days: Week 30	
Standards:	Assessment:	Resources:
1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 1-LS3-1 Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.		

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 31	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 32	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit:	Number of Weeks/Days: Week 33	
Standards:	Assessment:	Resources:

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Content Area: Science	Grade Level: 1st	
Title of Unit: Insects	Number of Weeks/Days: Week 34	
Standards:	Assessment:	Resources:
1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 1-LS3-1 Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.		

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Content Area: Science	Grade Level: 1st	
Title of Unit: S News Seashore Science	Number of Weeks/Days: Week 35	
Standards:	Assessment:	Resources:
1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 1-LS3-1 Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.		