Team Meeting Guide Outcomes	Strand	Specific Expectations	Addressed
<ul> <li>Session 1:</li> <li>Introduction - Let's Discover <ul> <li>Students discuss the Core</li> <li>Value of discovery and</li> <li>provide examples.</li> </ul> </li> <li>Team Outcomes <ul> <li>The team will use discovery to explore the MASTERPIECE</li> <li>theme and explain how people share what they love to do.</li> <li>The team will build a place to share a hobby or interest.</li> </ul> </li> <li>Share <ul> <li>Share what they did in the session.</li> <li>Explain their hobbies and interests.</li> </ul> </li> <li>Share how they use art or creativity in their interests.</li> </ul>	STEM Skills and Connections	*A1.1 use a scientific research process and associated skills to conduct investigations *A1.3 use an engineering design process and associated skills to design, build, and test devices, models, structures, and/or systems *A1.4 follow established health and safety procedures during science and technology investigations *A1.5 communicate their findings, using science and technology vocabulary and formats that are appropriate for specific audiences and purposes *A3.1 describe practical applications of science and technology concepts in their home and community, and how these applications address real-world problems *A3.2 investigate how science and technology can be used with other subject areas to address real-world problems	• • •
	Understanding Life Systems		

• The standard is clearly addressed by program activities.

Understanding Structures and Mechanisms	<b>D1.1</b> assess the impact of simple machines on the daily lives of people in various communities	•
Understanding Matter and Energy		
Understanding Earth and Space Systems		

Team Meeting Guide Outcomes	Strand	Specific Expectations	Addressed
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• The standard is clearly addressed by program activities.

<ul> <li>Session 2:</li> <li>Introduction – Go Team <ul> <li>Students talk about what teamwork is and provide examples of this Core Value</li> </ul> </li> <li>Team Outcomes <ul> <li>The team will build the basic stage and minifigures in Bag 1.</li> <li>The team will explore different jobs in the arts and tools or objects used</li> </ul> </li> <li>Share <ul> <li>Have the team:</li> <li>Share what they did in the session.</li> <li>Share what they learned about the experts in the Explore story</li> <li>Demonstrate how the different minifigure items could be used.</li> <li>Describe their scene for the</li> </ul> </li> </ul>	STEM Skills and Connections	*A1.1 use a scientific research process and associated skills to conduct investigations *A1.3 use an engineering design process and associated skills to design, build, and test devices, models, structures, and/or systems *A1.4 follow established health and safety procedures during science and technology investigations *A1.5 communicate their findings, using science and technology vocabulary and formats that are appropriate for specific audiences and purposes *A3.1 describe practical applications of science and technology concepts in their home and community, and how these applications address real-world problems *A3.2 investigate how science and technology can be used with other subject areas to address real-world problems	• • • • • • • • • • • • • • • • • • • •
Explore story	Understanding		
	Life Systems		

• The standard is clearly addressed by program activities.

Understanding Structures and Mechanisms	<b>D2.1</b> describe different ways an object can move <b>D2.4</b> describe ways in which each type of simple machine is used in daily life to make tasks easier	•
Understanding Matter and Energy		
Understanding Earth and Space Systems		

Grade 2 - Science Curriculum Alignment
2023-24 FIRST LEGO League Explore Team Meeting Guide

Team Meeting Guide Outcomes	Strand	Specific Expectations	Addressed
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• The standard is clearly addressed by program activities.

<ul> <li>Session 3:</li> <li>Introduction – Let's Have Fun <ul> <li>Teams talk about what fun is and provide examples of this Core Value</li> </ul> </li> <li>Team Outcomes <ul> <li>The team will add the music concert pieces to the basic stage.</li> <li>The team will identify different ways sound is used to help make an impact on an audience.</li> </ul> </li> <li>Share <ul> <li>Have the team:</li> <li>Share what they did in the session.</li> <li>Demonstrate how the concert stage works.</li> <li>Explain how sound is used to make an impact for an audience.</li> </ul> </li> </ul>	STEM Skills and Connections	*A1.1 use a scientific research process and associated skills to conduct investigations *A1.3 use an engineering design process and associated skills to design, build, and test devices, models, structures, and/or systems *A1.4 follow established health and safety procedures during science and technology investigations *A1.5 communicate their findings, using science and technology vocabulary and formats that are appropriate for specific audiences and purposes *A3.1 describe practical applications of science and technology concepts in their home and community, and how these applications address real-world problems *A3.2 investigate how science and technology can be used with other subject areas to address real-world problems	• • • •
sounds icons on the mat.	Understanding		
	Life Systems		

• The standard is clearly addressed by program activities.

St	nderstanding tructures and lechanisms	<ul> <li>D1.1 assess the impact of simple machines on the daily lives of people in various communities</li> <li>D2.1 describe different ways an object can move</li> <li>D2.2 identify ways in which the position of an object can be changed</li> <li>D2.4 describe ways in which each type of simple machine is used in daily life to make tasks easier</li> </ul>	•
Ma	nderstanding latter and nergy		
Ea Sp	nderstanding arth and pace ystems		

Team Meeting Guide Outcomes Strand	Specific Expectations	Addressed
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• The standard is clearly addressed by program activities.

<ul> <li>Session 4:</li> <li>Introduction – Let's Innovate <ul> <li>Students talk about what innovation is and the team provides examples of this Core Value</li> </ul> </li> <li>Team Outcomes <ul> <li>The team will build the LEGO® model from the lesson and explore motor coding blocks.</li> <li>The team will identify creative ways stages are used in a theatre.</li> </ul> </li> </ul>	STEM Skills and Connections	<ul> <li>*A1.1 use a scientific research process and associated skills to conduct investigations</li> <li>*A1.3 use an engineering design process and associated skills to design, build, and test devices, models, structures, and/or systems</li> <li>*A1.4 follow established health and safety procedures during science and technology investigations</li> <li>*A1.5 communicate their findings, using science and technology vocabulary and formats that are appropriate for specific audiences and purposes</li> <li>*A3.1 describe practical applications of science and technology concepts in their home and community, and how these applications address real-world problems</li> <li>*A3.2 investigate how science and technology can be used with other subject areas to address real-world problems</li> </ul>	• • • • • • • • • • • • • • • • • • • •
<ul> <li>Share</li> <li>Have the team:</li> <li>Share what they did in the session.</li> <li>Show the motor coding skills they learned.</li> <li>Explain how technology is used to make an impact for an audience.</li> <li>Show different examples of theatre icons on the mat.</li> </ul>			
	Understanding Life Systems		

• The standard is clearly addressed by program activities.

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Understanding Structures and Mechanisms	<ul> <li>D1.1 assess the impact of simple machines on the daily lives of people in various communities</li> <li>D2.1 describe different ways an object can move</li> <li>D2.2 identify ways in which the position of an object can be changed</li> </ul>	•
Understanding Matter and Energy		
Understanding Earth and Space Systems		

am Meeting Guide Outcomes Strand	Specific Expectations	Addressed	
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• The standard is clearly addressed by program activities.

<ul> <li>Session 5:</li> <li>Introduction – Be Inclusive <ul> <li>The team will talk about what inclusion is and provide examples of this Core Value</li> </ul> </li> <li>Team Outcomes <ul> <li>The team will build the LEGO® model from the lesson and explore the use of lights and sensors.</li> <li>The team will identify how lights and sounds are used to make a museum exhibit interactive.</li> </ul> </li> <li>Share <ul> <li>Have the team:</li> <li>Share what they did in the session.</li> <li>Show the sensor coding skills they learned.</li> <li>Demonstrate how they modified the model and code so that light and sound is triggered by a sensor</li> </ul> </li> </ul>	STEM Skills and Connections	*A1.1 use a scientific research process and associated skills to conduct investigations *A1.3 use an engineering design process and associated skills to design, build, and test devices, models, structures, and/or systems *A1.4 follow established health and safety procedures during science and technology investigations *A1.5 communicate their findings, using science and technology vocabulary and formats that are appropriate for specific audiences and purposes *A2.1 write and execute code in investigations and when modelling concepts, with a focus on decomposing problems into smaller steps *A3.1 describe practical applications of science and technology concepts in their home and community, and how these applications address real-world problems *A3.2 investigate how science and technology can be used with other subject areas to address real-world problems	• • • • • • • • • • • • • • • • • • • •
	Understanding Life Systems		

• The standard is clearly addressed by program activities.

Understanding Structures and Mechanisms	D2.1 describe different ways an object can move D2.2 identify ways in which the position of an object can be changed D2.5 compare, qualitatively or quantitatively, the force required to move an object using various simple machines to the force required to move the object without using a simple machine	- -
Understanding Matter and Energy		
Understanding Earth and Space Systems		

Team Meeting Guide Outcomes Strand	Specific Expectations	Addressed
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• The standard is clearly addressed by program activities.

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<ul> <li>Session 6:</li> <li>Introduction – Have an Impact <ul> <li>Teams will talk about what impact is and provide examples of this Core Value</li> <li>Team Outcomes</li> <li>The team will build the LEGO® model from the lesson and code the robot to drive.</li> <li>The team will apply their coding and building skills to change the existing robot into a vehicle with a camera.</li> </ul> </li> <li>Share <ul> <li>Have the team:</li> <li>Share what they did in the session.</li> <li>Show how they have applied coding skills learned in previous sessions to make a moving camera.</li> <li>Share how their moving camera was built</li> </ul> </li> </ul>	STEM Skills and Connections	<ul> <li>*A1.1 use a scientific research process and associated skills to conduct investigations</li> <li>*A1.3 use an engineering design process and associated skills to design, build, and test devices, models, structures, and/or systems</li> <li>*A1.4 follow established health and safety procedures during science and technology investigations</li> <li>*A1.5 communicate their findings, using science and technology vocabulary and formats that are appropriate for specific audiences and purposes</li> <li>*A2.1 write and execute code in investigations and when modelling concepts, with a focus on decomposing problems into smaller steps</li> <li>*A3.1 describe practical applications of science and technology concepts in their home and community, and how these applications address real-world problems</li> <li>*A3.2 investigate how science and technology can be used with other subject areas to address real-world problems</li> </ul>	• • • • • • • • • • • • • • • • • • • •
	Understanding Life Systems		

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Understanding Structures and Mechanisms	D2.1 describe different ways an object can move D2.2 identify ways in which the position of an object can be changed D2.5 compare, qualitatively or quantitatively, the force required to move an object using various simple machines to the force required to move the object without using a simple machine	•
Understanding Matter and Energy		
Understanding Earth and Space Systems		

Team Meeting Guide Outcomes	Strand	Specific Expectations	Addressed
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• The standard is clearly addressed by program activities.

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<ul> <li>Session 7:</li> <li>Introduction – Discovery Build <ul> <li>The team will provide examples of how they have used discovery throughout the sessions</li> <li>The team will create a build from the prototyping pieces represent this Core Value</li> </ul> </li> <li>Team Outcomes <ul> <li>The team will combine the basic stage model with the motor and hub</li> <li>The team will apply all their coding and building knowledge to create their own stage.</li> </ul> </li> <li>Share Have the team: <ul> <li>Share what they did in the session.</li> <li>Show how they have applied coding skills learned in previous sessions to make their model move.</li> <li>Demonstrate how their stage engages an audience.</li> </ul> </li> </ul>		<ul> <li>*A1.1 use a scientific research process and associated skills to conduct investigations</li> <li>*A1.3 use an engineering design process and associated skills to design, build, and test devices, models, structures, and/or systems</li> <li>*A1.4 follow established health and safety procedures during science and technology investigations</li> <li>*A1.5 communicate their findings, using science and technology vocabulary and formats that are appropriate for specific audiences and purposes</li> <li>*A2.1 write and execute code in investigations and when modelling concepts, with a focus on decomposing problems into smaller steps</li> <li>*A3.1 describe practical applications of science and technology concepts in their home and community, and how these applications address real-world problems</li> <li>*A3.2 investigate how science and technology can be used with other subject areas to address real-world problems</li> </ul>	
	Understanding Life Systems		

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Understanding Structures and Mechanisms	D2.1 describe different ways an object can move D2.2 identify ways in which the position of an object can be changed D2.5 compare, qualitatively or quantitatively, the force required to move an object using various simple machines to the force required to move the object without using a simple machine	• •
Understanding Matter and Energy		
Understanding Earth and Space Systems		

Team Meeting Guide Outcomes Strand	Specific Expectations	Addressed
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• The standard is clearly addressed by program activities.

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<ul> <li>Sessions 8 &amp; 9:</li> <li>Introduction – Teamwork and Fun Builds <ul> <li>The team will provide examples of how they have used teamwork and fun throughout the sessions</li> <li>The team will create a build from the prototyping pieces representing this Core Value</li> </ul> </li> <li>Team Outcomes <ul> <li>The team will draw their team model design and label its required parts.</li> <li>The team will create a team model to showcase a talent or interest that uses technology in creative ways.</li> </ul> </li> <li>Share <ul> <li>Have the team:</li> <li>Share what they did at the end of each session.</li> <li>Explain the program and how the motor, sensor and light are used in the model.</li> <li>Review the list of required parts and identify them on the team model.</li> <li>Demonstrate how the team</li> </ul> </li> </ul>	STEM Skills and Connections	*A1.1 use a scientific research process and associated skills to conduct investigations *A1.3 use an engineering design process and associated skills to design, build, and test devices, models, structures, and/or systems *A1.4 follow established health and safety procedures during science and technology investigations *A1.5 communicate their findings, using science and technology vocabulary and formats that are appropriate for specific audiences and purposes *A3.1 describe practical applications of science and technology concepts in their home and community, and how these applications address real-world problems *A3.2 investigate how science and technology can be used with other subject areas to address real-world problems	
Demonstrate how the team model works.			

• The standard is clearly addressed by program activities.

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Unders Life Sys	tanding stems		
	tanding res and nisms	D2.1 describe different ways an object can move D2.2 identify ways in which the position of an object can be changed D2.5 compare, qualitatively or quantitatively, the force required to move an object using various simple machines to the force required to move the object without using a simple machine	• •
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Unders Earth a Space System			

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Team Meeting Guide Outcomes	Strand	Specific Expectations	Addressed
<ul> <li>Sessions 10 &amp; 11:</li> <li>Introduction – Innovation and Inclusion Builds <ul> <li>The team will provide examples of how they have used innovation (Session 10) and inclusion (Session 11)</li> <li>The team will create a build from the prototyping pieces representing this Core Value</li> </ul> </li> <li>Team Outcomes <ul> <li>The team will create a plan for what they will include on their team poster.</li> <li>The team will design and create their team poster</li> </ul> </li> </ul>	STEM Skills and Connections	<ul> <li>*A1.1 use a scientific research process and associated skills to conduct investigations</li> <li>*A1.3 use an engineering design process and associated skills to design, build, and test devices, models, structures, and/or systems</li> <li>*A1.4 follow established health and safety procedures during science and technology investigations</li> <li>*A1.5 communicate their findings, using science and technology vocabulary and formats that are appropriate for specific audiences and purposes</li> <li>*A3.1 describe practical applications of science and technology concepts in their home and community, and how these applications address real-world problems</li> <li>*A3.2 investigate how science and technology can be used with other subject areas to address real-world problems</li> </ul>	• • •
<ul> <li>Share</li> <li>Have the team:</li> <li>Share what they did at the end of each session.</li> <li>Show their team poster design.</li> <li>Explain their team journey.</li> <li>Demonstrate how they will present their team poster</li> </ul>			

• The standard is clearly addressed by program activities.

Understanding Life Systems	
Understanding Structures and Mechanisms	
Understanding Matter and Energy	
Understanding Earth and Space Systems	

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Team Meeting Guide Outcomes	Strand	Specific Expectations	Addressed
<ul> <li>Session 12:</li> <li>Introduction – Impact Build <ul> <li>Have the team provide examples of how they have had an impact throughout the sessions</li> <li>Have the team create a build from the prototyping pieces representing this Core Value</li> </ul> </li> <li>Team Outcomes</li> </ul>	STEM Skills and Connections	<ul> <li>*A1.1 use a scientific research process and associated skills to conduct investigations</li> <li>*A1.3 use an engineering design process and associated skills to design, build, and test devices, models, structures, and/or systems</li> <li>*A1.4 follow established health and safety procedures during science and technology investigations</li> <li>*A1.5 communicate their findings, using science and technology vocabulary and formats that are appropriate for specific audiences and purposes</li> <li>*A3.1 describe practical applications of science and technology concepts in their home and community, and how these applications address real-world problems</li> </ul>	• • • • •
<ul> <li>The team will reflect on their MASTERPIECE experience. • The team will create a plan for what to share at their final event</li> <li>Share Have the team:</li> <li>Practice their team poster presentation.</li> <li>Practice their team model presentation.</li> </ul>		*A3.2 investigate how science and technology can be used with other subject areas to address real-world problems	
	Understanding Life Systems		

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	Understanding Structures and Mechanisms	D2.1 describe different ways an object can move D2.2 identify ways in which the position of an object can be changed D2.5 compare, qualitatively or quantitatively, the force required to move an object using various simple machines to the force required to move the object without using a simple machine	• •	
	Understanding Matter and Energy			
	Understanding Earth and Space Systems			

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