



Xploration

What will you discover?

Curriculum Standards Guide

Jeremy Griffus
Xploration STEM Director
603-882-9080 x2205
jgriffus@nashuaalc.org



Learn. Grow. Thrive.
www.nashuaalc.org



Curriculum Standards

Paper Air Rockets:

Next Generation Science Standards:

K-PS2-1	2-PS1-2	4-PS3-3	3-5-ETS1-1	MS-PS3-5
K-PS2-2	K-2-ETS1-2	4-PS3-1	3-5-ETS1-2	MS-ETS1-1
5-PS1-3	2-PS1-1	5-PS2-1	3-5-ETS1-3	

Science Technology/Engineering Standards:

PreK-PS1-3(MA)	3.3-5-ETS1-4(MA)	5.3-5-ETS3-2(MA)
PreK-PS2-1(MA)	4-PS3-1	6.MS-ETS1-6(MA)
K-PS2-1	4-PS3-3	6.MS-ETS2-6(MA)
1.K-2-ETS1-1	4.3-5-ETS1-5(MA)	
2-PS1-2	5-PS2-1	

Water Rockets:

Next Generation Science Standards:

K-PS2-1	K-2-ETS1-2	4-PS3-3	3-5-ETS1-2
K-PS2-2	3-PS2-1	5-PS1-3	3-5-ETS1-3
2-PS1-1	3-PS2-2	5-PS2-1	MS-PS3-5
2-PS1-2	4-PS3-1	3-5-ETS1-1	MS-ETS1-1

Science Technology/Engineering Standards:

PreK-PS1-3(MA)	1.K-2-ETS1-2	3.3-5-ETS1-4(MA).	4.3-5-ETS1-5(MA)
PreK-PS2-1(MA)	2-PS1-2	4-PS3-1	5-PS2-1
K-PS2-1	2.K-2-ETS1-3	4-PS3-3.	6.MS-ETS1-6(MA)
1.K-2-ETS1-1	3-PS2-1	4.3-5-ETS1-5(MA)	6.MS-ETS2-2(MA)

Wind Tunnels:

Next Generation Science Standards:

K-PS2-2	K-2-ETS1-3	3-5-ETS1-1.
2-PS1-1	3-PS2-1	3-5-ETS1-2
2-PS1-2	3-PS2-2	3-5-ETS1-3
K-2-ETS1-1	5-PS1-3	MS-ETS1-2
K-2-ETS1-2	5-PS2-1	

Wind Tunnels cont....:

Science Technology/Engineering:

PreK-PS1-3(MA)	2-PS1-2	4.3-5-ETS1-5(MA)
PreK-PS2-1(MA)	2.K-2-ETS1-3	5-PS2-1
1.K-2-ETS1-1	3-PS2-1	6.MS-ETS1-6(MA)
2-PS1-1	3.3-5-ETS1-4(MA)	6.MS-ETS2-2(MA)

Wind Vortex:

Next Generation Science Standards:

K-PS2-1	5-PS1-3	3-5-ETS1-3
K-2-ETS1-3	3-5-ETS1-2	MS-ETS1-2

Science Technology/Engineering Standards:

PreK-ESS2-6(MA)	K-PS2-1	3.3-5-ETS1-2
PreK-PS2-1(MA)	2-ESS2-4(MA)	4.3-5-ETS1-5(MA)
PreK-PS2-2(MA)	2.K-2-ETS1-3	4.3-5-ETS1-3

Sound Waves:

Next Generation Science Standards:

1-PS4-1	4-PS3-2	4-PS4-1	MS-PS4-1
1-PS4-4	4-PS3-4	4-PS4-3	MS-PS4-2

Science Technology/Engineering Standards:

PreK-PS4-1(MA)	1-PS4-4	4-PS3-4	6.MS-PS4-1
1-PS4-1	4-PS3-2	4-PS4-1	6.MS-PS4-2

Watersheds and Landforms:

Next Generation Science Standards:

K-LS1-1	2-ESS2-2	4-ESS2-2	MS-ESS2-4
K-ESS2-2	2-ESS2-3	4-ESS3-1	MS-ESS3-3
K-ESS3-3	3-LS4-4	5-ESS2-1	MS-ESS3-4
2-ESS1-1	4-ESS2-1	5-ESS2-2	

Watersheds and Landforms cont...:

Science Technology/Engineering Standards:

PreK-ESS2-1(MA)	PreK-ESS3-2(MA)	2-ESS2-2.	4-ESS2-1
PreK-ESS2-3(MA)	K-LS1-1	2-ESS2-3	4-ESS3-1
PreK-ESS2-6(MA)	K-ESS2-2	2-ESS2-4(MA)	5-ESS2-1
PreK-ESS3-1(MA)	K-ESS3-3	3-LS4-4	5-ESS2-2

Shake and Quake:

Next Generation Science Standards:

K-ESS3-2	4-PS3-3	3-5-ETS1-3	MS-ETS1-2
2-PS1-2	4-PS4-1	MS-PS4-2.	MS-ETS1-3
2-ESS1-1	4-ESS3-2	MS-ESS2-2	MS-ETS1-4
K-2-ETS1-1	3-5-ETS1-1	MS-ESS3-2.	
K-2-ET	3-5-ETS1-2	MS-ETS1-1	

Science Technology/Engineering Standards:

PreK-PS1-4(MA).	2-PS1-2	4-PS3-3	6.MS-PS4-2
PreK-PS2-1(MA).	2.K-2-ETS1-3.	4-PS4-1	6.MS-ETS1-1
PreK-PS2-2(MA)	3.3-5-ETS1-1	4-ESS3-2	6.MS-ETS1-6(MA)
K-ESS3-2	3.3-5-ETS1-2	4.3-5-ETS1-3	6.MS-ETS2-1(MA)
1.K-2-ETS1-1	3.3-5-ETS1-4(MA)	4.3-5-ETS1-5(MA)	6.MS-ETS2-2(MA)

Balloon Hovercrafts:

Next Generation Science Standards:

K-PS2-2	3-PS2-1	3-5-ETS1-3
K-2-ETS1-2	4-PS3-1	MS-ETS1-2

Science Technology/Engineering Standards:

PreK-PS2-1(MA)	2-PS3-1(MA)	4-PS3-1
PreK-PS2-2(MA)	3-PS2-1	4.3-5-ETS1-5(MA)

Helicopter Flight:

Next Generation Science Standards:

2-PS1-1	K-2-ETS1-3	3-PS2-2	5-PS2-1
2-PS1-2	3-PS2-1	4-PS3-1	

Science Technology/Engineering Standards:

PreK-PS2-1(MA)	2-PS1-2	3-PS2-1	5-PS2-1
2-PS1-1	2.K-2-ETS1-3	4-PS3-1	

Super Structures:

Next Generation Science Standards:

K-PS2-1	K-ESS3-3	K-2-ETS1-2	4-ESS3-2	MS-ESS2-5	MS-ETS1-4
K-PS2-2	2-PS1-1	K-2-ETS1-3	5-PS1-3	MS-ESS3-2	
K-ESS2-1	2-PS1-2	3-PS2-1	3-5-ETS1-1	MS-ETS1-2	
K-ESS2-2	2-ESS1-1	3-ESS2-1	3-5-ETS1-2	MS-ETS1-3	
K-ESS3-2	K-2-ETS1-1	3-ESS3-1	3-5-ETS1-3	MS-ETS1-3	

Science Technology/Engineering Standards:

PreK-ESS2-6(MA)	K-ESS3-3	2.K-2-ETS1-3	3.3-5-ETS1-2	6.MS-ETS2-2(MA)
PreK-PS2-2(MA)	K-PS2-1	3-ESS2-1	4-ESS3-2	
K-ESS2-1	1.K-2-ETS1-1	3-ESS3-1	4.3-5-ETS1-3	
K-ESS2-2	2-PS1-1	3-PS2-1	4.3-5-ETS1-5(MA)	
K-ESS3-2	2-PS1-2	3.3-5-ETS1-1	6.MS-ETS2-1(MA)	

Farmer's Bridge:

Next Generation Science Standards:

K-PS2-1	K-2-ETS1-1	5-PS2-1	MS-ETS1-1
2-PS1-1	K-2-ETS1-2	3-5-ETS1-1	MS-ETS1-2
2-PS1-2	K-2-ETS1-3	3-5-ETS1-2	MS-ETS1-3
2-PS1-3.	5-PS1-3	3-5-ETS1-3	MS-ETS1-4

Science Technology/Engineering Standards:

PreK-PS1-3(MA)	K-PS2-1	2-PS1-1	2.K-2-ETS1-3	5-PS1-3
PreK-PS1-4(MA)	1.K-2-ETS1-1	2-PS1-2	3.3-5-ETS1-1	5-PS2-1
PreK-PS2-2(MA)	1.K-2-ETS1-2	2-PS1-3	4.3-5-ETS1-5(MA).	6.MS-ETS1-1

Crash Test:

Next Generation Science Standards:

K-PS2-1	K-2-ETS1-2	3-5-ETS1-1	MS-ETS1-2
2-PS1-2	K-2-ETS1-3	3-5-ETS1-2	MS-ETS1-3
2-PS1-3	3-PS2-1	3-5-ETS1-3	MS-ETS1-4
K-2-ETS1-1	4-PS3-3	MS-PS2-1	

Science Technology/Engineering Standards:

PreK-PS1-3(MA)	1.K-2-ETS1-1	3.3-5-ETS1-1	4.3-5-ETS1-5(MA)
PreK-PS1-4(MA)	1.K-2-ETS1-2	3.3-5-ETS1-2	6.MS-ETS1-6(MA)
PreK-PS2-1(MA).	2-PS1-2	4-PS3-3	
K-PS2-1	2.K-2-ETS1-3	4.3-5-ETS1-3.	

Super Coasters:

Next Generation Science Standards:

K-PS2-1	2-PS1-3	4-PS3-1	MS-PS3-1
K-PS2-2	K-2-ETS1-2	3-5-ETS1-1	MS-ETS1-2
2-PS1-1	K-2-ETS1-3	3-5-ETS1-2	MS-ETS1-3
2-PS1-2	3-PS2-1	3-5-ETS1-3	MS-ETS1-4

Science Technology/Engineering Standards:

PreK-PS2-1(MA)	2-PS1-1	3-PS2-1	4-PS3-1
PreK-PS2-2(MA)	2-PS1-2	3.3-5-ETS1-1	4.3-5-ETS1-3
K-PS2-1	2-PS1-3	3.3-5-ETS1-2	4.3-5-ETS1-5(MA)
1.K-2-ETS1-2	2.K-2-ETS1-3	3.3-5-ETS1-4(MA).	6.MS-ETS1-1

Bubble Adventures:

Next Generation Science Standards:

1-PS4-3	2-PS1-2	3-5-ETS1-2
2-PS1-1	K-2-ETS1-3	

Science Technology/Engineering Standards:

PreK-PS1-3(MA).	2-PS1-1	2.K-2-ETS1-3
PreK-PS1-4(MA).	2-PS1-2	3.3-5-ETS1-2

Boo Bubbles:

Next Generation Science Standards:

1-PS4-3 2-PS1-1 2-PS1-2 2-PS1-4

Science Technology/Engineering Standards:

PreK-PS1-1(MA) K-PS1-1(MA) 2-PS1-4

PreK-PS1-4(MA) 2-PS1-1

Elephant's Toothpaste:

Next Generation Science Standards:

2-PS1-1 2-PS1-4 5-PS1-3 5-PS1-4 MS-PS1-2

Science Technology/Engineering Standards:

PreK-PS1-3(MA) 5-PS1-3 6.MS-PS1-6

PreK-PS1-4(MA) 5-PS1-4

Slime Science:

Next Generation Science Standards:

2-PS1-1 5-PS1-3 5-PS1-4 MS-PS1-5

Science Technology/Engineering Standards:

PreK-PS1-1(MA) PreK-PS1-4(MA) 5-PS1-3.

PreK-PS1-3(MA) 2-PS1-1 5-PS1-4

Soda Geysers:

Next Generation Science Standards:

5-PS1-3 5-PS1-4

Science Technology/Engineering Standards:

PreK-PS1-3(MA) PreK-PS1-4(MA) 5-PS1-3. 5-PS1-4.

Plasma Science:

Next Generation Science Standards:

2-PS1-4 4-PS3-2 MS-PS1-4

3-PS2-3 5-PS1-1 MS-PS2-3

Plasma Science cont...:

Science Technology/Engineering Standards:

PreK-PS1-1(MA) K-PS1-1(MA) 2-PS1-4 4-PS3-2 5-PS1-1

LittleBits and Circuits:

Next Generation Science Standards:

1-PS4-4 4-PS3-2 3-5-ETS1-2 MS-ETS1-2 MS-ETS1-4
2-PS1-2 4-PS3-4 3-5-ETS1-3 MS-ETS1-3

Science Technology/Engineering Standards:

2-PS1-2 3.3-5-ETS1-2 4.3-5-ETS1-3-PS3-2 4-PS3-4 4.3-5-ETS1-3

Lights and Lasers:

Next Generation Science Standards:

1-PS4-2 1-PS4-3 4-PS4-2 MS-PS4-2

Science Technology/Engineering Standards:

PreK-PS4-2(MA) 1-PS4-3 4-PS4-2 6.MS-PS4-2

Coding with Sphero:

Next Generation Science Standards:

K-PS2-1 3-PS2-2 3-5-ETS1-3 MS-ETS1-3
K-PS2-2 4-PS3-1 MS-PS4-3 MS-ETS1-4

Science Technology/Engineering Standards:

PreK-PS2-1(MA). 3.3-5-ETS1-4(MA). 4-PS3-2 6.MS-PS4-3
K-PS2-1. 4-PS3-1 4.3-5-ETS1-3