



STEM Podcast Topic Alignment with the Next Generation Science Standards (NGSS)

Supports the performance expectations (PE) of the NGSS for students in third grade through middle school by providing background knowledge for, and/or enhancing understanding of, the disciplinary core ideas (DCI) central to the NGSS. The Walking Classroom's Adopter Resources website includes a podcast database searchable by topic, education standard, and more as well as curated hands-on activities, printables, and virtual field trips for extending the lesson.

PS – Physical Science | LS – Life Science | ESS – Earth and Space Science | ETS – Engineering, Technology and the Application of Science

# Podcast Title		NGSS Performance Expectations Addressed		
		ELEMENTARY	MIDDLE SCHOOL	
INTRO	1	Welcome to The Walking Classroom	NA	NA
	2	Hello from Room 33	NA	NA
	3	Introduction to TWC	NA	NA
PHYSICAL SCIENCE	4	Leonardo da Vinci	3-5-ETS1-1, 3-5-ETS1-3	MS-ETS1-1, MS-ETS1-3, MS-ETS1-4
	5	Galileo Galilei	5-ESS1-1, 5-ESS1-2, 3-5-ETS1-1, 3-5-ETS1-3	MS-ESS1-1, MS-ESS1-2, MS-ESS1-3, MS-ETS1-1, MS-ETS1-3, MS-ETS1-4
	6	Gabriel Fahrenheit	3-ESS2-1, 3-ESS2-2, 3-5-ETS1-1, 3-5-ETS1-3	MS-ETS1-1, MS-ETS1-3, MS-ETS1-4
	7	Benjamin Banneker	5-ESS1-2, 3-5-ETS1-1, 3-5-ETS1-3	MS-ESS1-1, MS-ESS1-2, MS-ESS1-3, MS-ETS1-1, MS-ETS1-3, MS-ETS1-4
	8	Erie Canal	3-5-ETS1-1, 3-5-ETS1-3	MS-ETS1-1, MS-ETS1-2, MS-ETS1-3, MS-ETS1-4
	9	Thomas Edison	3-PS2-3, 3-PS2-4, 3-5-ETS1-1, 3-5-ETS1-3	MS-PS2-3, MS-PS2-5, MS-ETS1-1, MS-ETS1-3, MS-ETS1-4
	10	Albert Einstein	3-PS2-1, 3-PS2-2	MS-PS1-2, MS-PS1-3, MS-PS1-5, MS-PS2-1, MS-PS2-2
	11	Meteorology	3-ESS2-1, 3-ESS2-2, 4-ESS2-1, 5-ESS2-1, 5-ESS2-2	MS-ESS2-2, MS-ESS2-4, MS-ESS2-5, MS-ESS2-6, MS-PS3-3, MS-PS3-4
	12	Precipitation and The Water Cycle	3-ESS2-1, 3-ESS2-2, 4-ESS2-1, 5-ESS2-1	MS-ESS2-1, MS-ESS2-4, MS-ESS2-5
	13	Hurricanes	3-ESS2-1, 3-ESS2-2, 3-ESS3-1, 4-ESS2-1, 4-ESS3-2, 5-ESS2-1	MS-ESS2-4, MS-ESS2-5, MS-ESS2-6, MS-ESS3-2
EARTH SCIENCE	14	Tornadoes	3-ESS2-1, 3-ESS2-2, 3-ESS3-1, 4-ESS2-1, 4-ESS3-2, 5-ESS2-1	MS-ESS2-5, MS-ESS2-6, MS-ESS3-2
	15	Geology	4-ESS1-1, 4-ESS2-1, 4-ESS2-2, 5-ESS2-1	MS-ESS1-4, MS-ESS2-3, MS-ESS3-1
	16	Layers of the Earth	3-LS4-1, 4-ESS1-1, 4-ESS2-2, 5-ESS2-1	MS-ESS1-4, MS-ESS2-2, MS-ESS2-3, MS-LS4-1
	17	Rocks of the Earth's Crust	3-LS4-1, 4-ESS1-1, 4-ESS2-2, 5-ESS2-1	MS-ESS1-4, MS-ESS2-2, MS-ESS2-3, MS-LS4-1
	18	Hot Springs and Geysers	4-ESS1-1, 5-ESS2-1	MS-ESS2-1, MS-ESS2-3
	19	Volcanoes	3-ESS3-1, 4-ESS2-2, 4-ESS3-2, 5-ESS2-1	MS-ESS2-1, MS-ESS2-3, MS-ESS3-2
	20	Deserts	3-LS4-3, 3-LS4-4	MS-LS2-1, MS-LS2-4
	21	Mountains	4-ESS1-1, 4-ESS2-2	MS-ESS2-3
	22	Continental Divide	4-ESS2-1, 4-ESS2-2, 5-ESS2-1	MS-ESS2-2, MS-ESS2-3
	23	John Muir	4-ESS3-1, 5-ESS3-1	MS-ESS3-1, MS-ESS3-3, MS-ESS3-4
	24	William Morris Davis	4-ESS2-2	MS-ESS3-3
	25	Political and Physical Maps	4-ESS2-2	MS-ESS2-3
	26	Suns, Stars, and Galaxies	5-ESS1-1, 5-ESS1-2, 5-PS2-1	MS-ESS1-1, MS-ESS1-2, MS-ESS1-3, MS-PS2-4
	27	The Ocean Floor	3-LS4-4, 4-ESS2-2	MS-ESS2-3
	28	Currents and Tides	4-ESS2-1, 5-ESS2-1	MS-ESS2-4, MS-ESS2-5, MS-ESS2-6

	#	Podcast Title	NGSS Performance Expectations Addressed	
			ELEMENTARY	MIDDLE SCHOOL
LIFE SCIENCE	29	Human Body's Slimy Shields	4-LS1-1, 4-LS1-2	MS-LS1-1, MS-LS1-2, MS-LS1-3, MS-LS1-8
	30	Skin	4-LS1-1, 4-LS1-2	MS-LS1-1, MS-LS1-2, MS-LS1-3, MS-LS1-8
	31	Heart & Circulatory System	4-LS1-1	MS-LS1-1, MS-LS1-2, MS-LS1-3
	32	Animal Classification	3-LS2-1, 4-LS1-1	MS-LS4-2
	33	Food Chains	5-LS1-1, 5-LS2-1	MS-LS2-1, MS-LS2-2, MS-LS2-3
	34	Marine Life	3-ESS3-1, 3-LS4-3, 3-LS4-4, 4-ESS3-1, 4-ESS3-2, 5-ESS3-1	MS-ESS3-1, MS-ESS3-3, MS-LS4-6
	35	George Washington Carver	4-LS1-1, 5-LS1-1, 5-LS2-1	MS-LS1-4, MS-LS1-6, MS-LS1-7
	36	Conservation	4-ESS3-1, 5-ESS3-1	MS-ESS3-1, MS-ESS3-3, MS-ESS3-4
	37	Rachel Carson	4-ESS3-1, 5-ESS3-1	MS-ESS3-1, MS-ESS3-3, MS-ESS3-4
	38	Inez Fung	5-ESS2-1, 5-ESS3-1	MS-ESS3-1, MS-ESS3-3, MS-ESS3-4, MS-ESS3-5
	39	Clara Barton	3-5-ETS1-1, 3-5-ETS1-3	MS-ETS1-1, MS-ETS1-3, MS-ETS1-4
	40	Dr. Elizabeth Blackwell	3-5-ETS1-1, 3-5-ETS1-3	MS-ETS1-1, MS-ETS1-3, MS-ETS1-4
	41	Dr. Daniel Hale Williams	4-LS1-1, 3-5-ETS1-1, 3-5-ETS1-3	MS-LS1-3, MS-ETS1-1, MS-ETS1-3, MS-ETS1-4
	42	Mayo Family & Clinic	3-5-ETS1-1, 3-5-ETS1-3	MS-ETS1-1, MS-ETS1-3, MS-ETS1-4
43	Dr. Charles Drew	4-LS1-1, 3-5-ETS1-1, 3-5-ETS1-3	MS-LS1-3, MS-ETS1-1, MS-ETS1-3, MS-ETS1-4	
44	Dr. Christiaan Barnard	4-LS1-1, 3-5-ETS1-1, 3-5-ETS1-3	MS-LS1-3, MS-ETS1-1, MS-ETS1-3, MS-ETS1-4	
45	John Dalton	5-PS1-1	MS-PS1-1, MS-PS1-2, MS-PS1-3, MS-PS1-5	
SCIENCE CAREER SERIES	46	Dr. Patrick Treuthardt, Physicist	5-ESS1-1, 5-ESS1-2, 5-PS2-1	MS-ESS1-1, MS-ESS1-2, MS-ESS1-3, MS-PS2-4
	47	Liz Baird, Director of Education	4-ESS2-2, 5-ESS2-2	MS-ESS2-3
	48	Dr. Chris Tacker, Geologist	3-ESS3-1, 4-ESS1-1, 4-ESS3-1	MS-ESS1-4, MS-ESS2-3, MS-ESS3-1
	49	Dr. Emlyn Koster, Geologist	4-ESS1-1, 4-ESS3-1	MS-ESS1-4, MS-ESS2-3, MS-ESS3-1
	50	Dr. Paul Brinkman, Paleontologist	3-LS4-1, 4-ESS1-1	MS-ESS1-4, MS-ESS2-3, MS-LS4-1, MS-LS4-2
	51	Bob Alderink, Lab Coordinator	3-LS4-4	MS-LS2-1, MS-LS2-2, MS-LS2-4, MS-LS2-5
	52	Dr. Colin Brammer, Entomologist	3-LS1-1, 4-LS1-1	MS-LS1-4, MS-LS2-1, MS-LS2-2, MS-LS2-3
	53	Dr. Jason Cryan, Entomologist	3-LS1-1, 3-LS4-1, 4-LS1-1	MS-LS1-4, MS-LS2-1, MS-LS2-2, MS-LS2-3, MS-LS4-3
	54	Dr. Dan Dombrowski, Veterinarian	3-LS1-1, 3-LS2-1, 4-LS1-1	MS-LS1-4, MS-LS4-3
	55	Chris Goforth, Citizen Science	3-LS4-4, 5-ESS3-1, 5-LS2-1	MS-ESS3-3, MS-ESS3-4, MS-LS2-1, MS-LS2-2
	56	Dr. Roland Kays, Zoologist	3-LS1-1, 3-LS2-1, 3-LS4-1, 4-LS1-1	MS-LS1-4, MS-LS4-3
	57	Dr. Stephanie Schuttler, Mammologist	3-LS1-1, 3-LS2-1, 3-LS4-1, 4-LS1-1	MS-LS1-4, MS-LS4-3
	58	Dr. Julia Stevens, Microbial Ecologist	3-LS4-4, 5-LS2-1	MS-LS2-1, MS-LS2-5
	59	Ben Hess, Collections Manager	3-LS1-1, 3-LS2-1, 3-LS4-1, 4-LS1-1	MS-LS1-4, MS-LS4-3
	60	Dr. Julie Horvath Evolutionary Genomicist	3-LS1-1, 3-LS3-1, 3-LS3-2, 4-LS1-1	MS-LS1-5, MS-LS3-1, MS-LS3-2
	61	Dr. Julie Urban, Evolutionary Biologist	3-LS4-1, 3-LS4-3	MS-LS4-2, MS-LS4-3, MS-LS4-6