



	Art			
		Submitted Pieces	Contributor	
1	Approximately how many diamonds are sewn onto this quilt?	Approximately how many diamonds are sewn onto this quilt?	Submitted by Min Wang, doctoral student in Math Education at SMU.	
2	How many books could fit on these bookshelves?	How many books could fit on this bookshelf?	Submitted by Astra Zeno of the Young Women's College Preparatory Academy in Houston, TX, on behalf of her students.	
3	What shapes do you see? What do you notice about how these shapes lift together?	What shapes do you see?	* Submission from Dr. Leanne Ketterlin Geller, PhD.	
4		How many different angles do you see?	Submission from Dallas Love Field Airport.	
5	https://youtu.be/rYJE7JiNmvc	STEAM in design at Solar Prep	Submitted on behalf of the Solar Preparatory School for Girls, Dallas ISD, by Assistant Principal Jennifer Turner.	
6		How does a pinhole camera create a solar graph?	Submitted by Sonia Dhingra, high school senior at Greenhill School, Addison, TX.	
7	Why do minerals come is so many different colors?	Why do minerals come in so many colors?	* Submitted by Dr. Linda Silver, Eugene McDermott Chief Executive Officer at the Perot Museum of Nature and Science.	













8	APPROXIMATELY HOW MANY WE WIND THE PROPERTY OF	Dress circles, balance beams, and square tiles.	Submitted by Astra Zeno of the Young Women's College Preparatory Academy in Houston, TX, on behalf of her students.
9	Why does the length defermine the tone?	Why does the length determine the tone?	* Submitted by Maya Leibman, talkSTEM board member and CIO of American Airlines.
10		Cross-generational sharing of STEM	* Submitted by Sonja Bernhardt OAM, Australian technology entrepreneur.

	Food			
		Submitted Pieces	Contributor	
11	The mass and initial temperature of the water are shown. How much energy is required to bring the water to boiling? (Assume total field transfer) (HINTG-INTG (T-11))	How much energy is required to bring the water to boiling?	* Submitted by Morgan Merriman, high school chemistry teacher, Dallas ISD.	
12	Why doeant toffee break in erraight lines when you cut it?	Why doesn't toffee break in straight lines when you cut it?	An anonymous submission.	
13	HOW HAM! GREEN BEANS CONE IN EACH	How many green beans come in each can?	Submitted by Astra Zeno of the Young Women's College Preparatory Academy in Houston, TX, on behalf of her students.	
14	Would my bread have risen differently in a metal pan?	Would this bread rise differently in a metal pan?	* Submitted by Karen Carney, Head of School at the Chicago Friends School.	













15	d=18 ₹ m	How can the circumference of this dessert be calculated?	Submitted by Min Wang, on behalf of Dallas ISD high school students in the SMU college access program.
16	https://youtu.be/MzhHKKmPTds	What is the ideal temperature for cooking?	* Submitted by talkSTEM. Special thanks to Starbucks Community Café in RedBird neighborhood of Southern Dallas and City of Dallas Office of Cultural Affairs
17		Given these differences in scale, what percentage of the coffee cup with the creamer fill?	Submitted by Min Wang, on behalf of Dallas ISD high school students in the SMU college access program.
18	STEM CAREERS IN CEREAL: FARMER. NUTRITIONIST. CHEMICAL ENGINEER. GRAPHIC ARTIST. INDUSTRIAL ENGINEER. LOGISTICIAN. MARKETER. SUPPLY CHAIN.	STEM careers in cereal	* Submitted by Sheila Boyington, CEO of Learning Blade and National Senior Advisor to STEMconnector® and National States Chair for Million Women Mentors®

		Outdoors	
		Submitted Pieces	Contributor
1	9 What seems to be the average "height" of an adult burnry	What seems to be the average "height" of an adult bunny?	* Submitted by Min Wang, doctoral student in Math Education at SMU.
2	Why is this creature blending in to its surroundings?	Why is this creature blending in to its surroundings?	* Submitted by Kim L Galloway, Education Specialist at Region 13.
2	How do bees figure out if a flower is too far from the hive to be worth it? How do they know directions?	How do bees figure out if a flower is too far from the hive to be worth it? How do they know directions?	* Submitted by Prof. Laurice Nemetz, of Pace University.













22	APPROXIMENTALLY HOW LONG WILL TAKE FOR THIS FLOWER TO GROW!	How long will it take for this flower to grow?	Submitted by Astra Zeno of the Young Women's College Preparatory Academy in Houston, TX, on behalf of her students.
23	https://www.tiktok.com/@tofu warlock/video/6917377063137 676550?		* Submitted by Jennifer Fee and Victoria Varlack of the Cornell Lab of Ornithology.
24		Why are some flowers globe-shaped?	* Submitted by Karen Carney, Head of School at the Chicago Friends School.
25	What simple machine do you see?	What simple machine do you see?	* Submitted by Meghan Curry, Executive Director at Insights El Paso.
26	https://youtu.be/OJoknggXBp4	What colume of water can the rain barrels hold?	* Submitted by talkSTEM in partnership with Girl Scouts of North East Texas, with support from the High Tech High Heels non-profit.
27	Why such great symmetry?	Why such great symmetry?	* Submitted by Maya Leibman, talkSTEM board member and CIO of American Airlines.
28	Why do these minerals look like feet?	Why do these minerals look like feet?	* Submitted by Kimberly Vagner, Director of the Gems and Minerals Center of Excellence at the Perot Museum of Nature and Science.













	Sports			
		Submitted Pieces	Contributor	
29	The system and the system of t	How can the size of a stadium be estimated from its capacity?	An anonymous submission.	
30	Which shoe tread palls works best for a leag run	What shoe pattern works best for a long run?	An anonymous submission.	
31	WHAT IS THE DIAMETER OF THE BASKETBALL HOOP?	What is the diameter of the basketball hoop?	Submitted by Astra Zeno of the Young Women's College Preparatory Academy in Houston, TX, on behalf of her students.	
32	www.mathathome.mathlearningc enter.org/activity/1437	Skateboard questions	Submitted by the Math Learning Center, as part of their Math at Home series (mathlearningcenter.org).	
33	What is happening in the brain that causes this state of focus?	What is happening in the brain during meditation?	* Submitted by Dorsey Standish, Chief Mindfulness Officer at Mastermind Meditate.	
34	Al will undle should but hit the above but a gal wer the net?	What is the ideal pickleball angle?	Submitted by Sonia Dhingra, high school senior at Greenhill School, Addison, TX.	
35	https://youtu.be/jdbdZYUxtio	Why is the roof this shape?	Submitted by Girls Inc. of Metropolitan Dallas as part of their Create Your Own walkSTEM project.	
36	https://youtu.be/RuBR-ivttNI	Designing Games at the Cameron Indoor Stadium's Basketball Court	* Submitted by Katherine Drinkwater, undergraduate at Duke University's Pratt school of engineering and member of Duke's chapter of Society of Women Engineers.	







	Art			
		Submitted Pieces	Contributor	
1	11.10	Using the candlestick as reference, how tall is the lamp?	Submitted by Min Wang, on behalf of Dallas ISD high school students in the SMU college access program.	
2	Which shoe exerts ore pressure on the foot?	Shoe pressures	* Submitted by Karishma Kishnani, digital marketing student, London, UK.	
3	STEM The tracking parties for each of the control	How could you calculate the volume of a ukelele?	Submitted by Astra Zeno of the Young Women's College Preparatory Academy in Houston, TX, on behalf of her students.	
4		What shapes make up the London Eye?	* Submitted by Karishma Kishnani, digital marketing student, London, UK.	
5	https://youtu.be/rYJE7JiNmvc	STEAM in design at Solar Prep	Submitted on behalf of the Solar Preparatory School for Girls, Dallas ISD, by Assistant Principal Jennifer Turner.	
6	Why do minerals come is so many different colors?	Why do minerals come in so many colors?	* Submitted by Dr. Linda Silver, Eugene McDermott Chief Executive Officer at the Perot Museum of Nature and Science.	
7	Why does the length defermine the tone?	Why does the length determine the tone?	* Submitted by Maya Leibman, talkSTEM board member and CIO of American Airlines.	









Cross-generational sharing of STEM

* Submitted by Sonja Bernhardt OAM, Australian technology

		Food	
		Submitted Pieces	Contributor
9		What knife will work best on the kiwi, and why?	* Submitted by Dr. Koshi Dhingra, CEO of TalkSTEM.
10	Why doesn't toffee break in straight lines when you out it?	Why doesn't toffee break in straight lines when you cut it?	An anonymous submission.
11		How many calories can be found in each grape, if they are all about the same size?	* Submitted by Morgan Merriman, high school chemistry teacher, Dallas ISD.
12	Would my bread have risen differently in a metal pan?	Would this bread rise differently in a metal pan?	* Submitted by Karen Carney, Head of School at the Chicago Friends School.
13	What is the as a or volume of the contained	How would you solve for the surface area or volume of this container?	Submitted by Min Wang, on behalf of Dallas ISD high school students in the SMU college access program.
14	https://youtu.be/MzhHKKmPTds	What is the ideal temperature for cooking?	* Submitted by talkSTEM. Special thanks to Starbucks Community Café in RedBird neighborhood of Southern Dallas and City of Dallas Office of Cultural Affairs









15	https://youtu.be/GXicYxLkdP8	What's the difference between Starbucks' nitro brew and a carbonated soda?	* Submitted by talkSTEM. Special thanks to Starbucks Community Café in RedBird neighborhood of Southern Dallas and City of Dallas Office of Cultural Affairs
16		Given these differences in scale, what percentage of the coffee cup with the creamer fill?	Submitted by Min Wang, on behalf of Dallas ISD high school students in the SMU college access program.

		Outdoors	
		Submitted Pieces	Contributor
17	How much snow does your area get yearly? What are the benefits from that snow on the environment around you? HERNYMENS RECHET RETURNING THE MILLIANCE TO	Snowfall	* Submitted by Kayleigh Bucur, STEM Program Manager at The STEM Center of Excellence with Girl Scouts of North East Texas.
18	What are good branch lengths and angles for tree climbing?	What's the best angle for tree climbing?	* Submitted by Annie Wilhelm, Math Educator and Associate Professor at SMU Simmons School
19	How can woodpeckers peck so fast?	Woodpeckers	* Dra. Jeanette Shakalli, Professor and Executive Director of the Panamanian Foundation for the Promotion of Mathematics (FUNDAPROMAT). @jshakall on Instagram.
20		Excavating in pink	* Submitted by Gwen Bell, Technology Education Teacher. @TechEdBell on Twitter.
21	https://www.tiktok.com/@tofuwarlock/video/6917377063137 676550?		* Submitted by Jennifer Fee and Victoria Varlack of the Cornell Lab of Ornithology.











22		Why are some flowers globe-shaped?	* Submitted by Karen Carney, Head of School at the Chicago Friends School.
23	Why do met.	Why do most cats have retractable claws but cheetahs do not?	* Submitted by Lisa Van Slett, Children's Zoo Supervisor at the Dallas Zoo.
24		Who is a conservation scientist? What is a naturalist?	* Submitted by Sabrai Raja, CEO of Nepris.
25	HOW DOES THE SMOOTH FERDER OF THE BANKTON OF THE BA	How does the smooth texture of the rose head benefit the plant?	Submitted by Astra Zeno of the Young Women's College Preparatory Academy in Houston, TX, on behalf of her students.
26	attestus have such long tongues?	Why do anteaters have such long tongues?	* Submitted by Sara Bjerklie, Lead Zoologist at the Dallas Zoo.
27	Why do these minerals look like feet?	Why do these minerals look like feet?	* Submitted by Kimberly Vagner, Director of the Gems and Minerals Center of Excellence at the Perot Museum of Nature and Science.













Sports Sports			
		Submitted Pieces	Contributor
28	1 Share of the forest of the f	Skiing	* Submitted by Erika Kurt, STEM Education Pioneer and Small World Initiative President. @erikakurt on Instagram
29		Muscle growth	* Submitted by Parul Harsora, MD. @ parul.harsora on Instagram
30	WHAT IS THE DIAMETER OF THE BASKETBALL HOOP?	What is the diameter of the basketball hoop?	Submitted by Astra Zeno of the Young Women's College Preparatory Academy in Houston, TX, on behalf of her students.
31	www.mathathome.mathlearningc enter.org/activity/1437	Skateboard questions	Submitted by the Math Learning Center, as part of their Math at Home series (mathlearningcenter.org).
32	What is the probability of scoring if you: run the ball to the right? run the ball to the left? use the Triple Option? throw long to a receiver?	Scoring probability	* Submitted by Sheila Boyington, CEO of Thinking Media and National States Chair at Million Women Mentors
33	What is the length and width of the gymnastics balance beam?	What is the length and width of a balance beam?	Submitted by Astra Zeno of the Young Women's College Preparatory Academy in Houston, TX, on behalf of her students.
34	https://youtu.be/jdbdZYUxtio	Why is the roof this shape?	Submitted by Girls Inc. of Metropolitan Dallas as part of their Create Your Own walkSTEM project.
36	https://youtu.be/RuBR-ivttNI	Designing Games at the Cameron Indoor Stadium's Basketball Court	* Submitted by Katherine Drinkwater, undergraduate at Duke University's Pratt school of engineering and member of Duke's chapter of Society of Women Engineers.







