


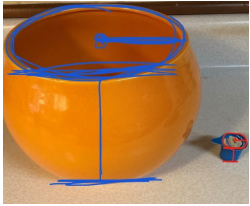

Art


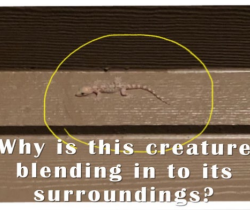
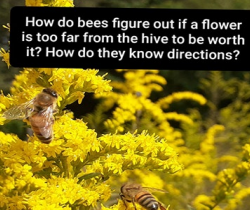
Submitted Pieces		Contributor
1	<p>Approximately how many diamonds are sewn onto this quilt?</p>	Submitted by Min Wang, doctoral student in Math Education at SMU.
2	<p>How many books could fit on this bookshelf?</p>	Submitted by Astra Zeno of the Young Women's College Preparatory Academy in Houston,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

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

Food

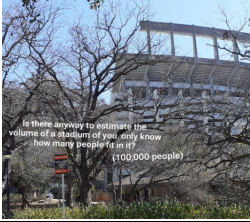

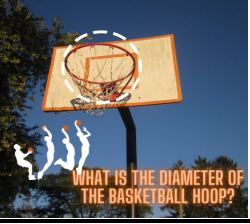
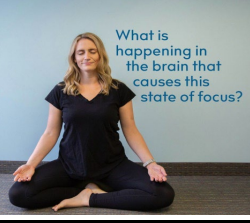

Submitted Pieces		Contributor
<p>11</p>		<p>How much energy is required to bring the water to boiling?</p> <p>* Submitted by Morgan Merriman, high school chemistry teacher, Dallas ISD.</p>
<p>12</p>		<p>Why doesn't toffee break in straight lines when you cut it?</p> <p>An anonymous submission.</p>
<p>13</p>		<p>How many green beans come in each can?</p> <p>Submitted by Astra Zeno of the Young Women's College Preparatory Academy in Houston, TX, on behalf of her students.</p>
<p>14</p>		<p>Would this bread rise differently in a metal pan?</p> <p>* Submitted by Karen Carney, Head of School at the Chicago Friends School.</p>

15		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	* Submitted by Sheila Boyington, CEO of Learning Blade and National Senior Advisor to STEMconnector® and National States Chair for Million Women Mentors®


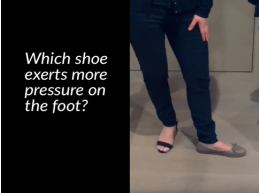
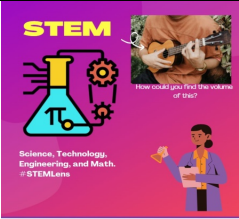


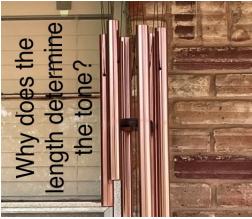
Outdoors		
	Submitted Pieces	Contributor
19		* Submitted by Min Wang, doctoral student in Math Education at SMU.
20		* Submitted by Kim L Galloway, Education Specialist at Region 13.
21		* Submitted by Prof. Laurice Nemetz, of Pace University.


<p>22</p>		<p>How long will it take for this flower to grow?</p>	<p>Submitted by Astra Zeno of the Young Women's College Preparatory Academy in Houston, TX, on behalf of her students.</p>
<p>23</p>	<p>https://www.tiktok.com/@tofuwarlock/video/6917377063137676550?</p>	<p>Questions in nature</p>	<p>* Submitted by Jennifer Fee and Victoria Varlack of the Cornell Lab of Ornithology.</p>
<p>24</p>		<p>Why are some flowers globe-shaped?</p>	<p>* Submitted by Karen Carney, Head of School at the Chicago Friends School.</p>
<p>25</p>		<p>What simple machine do you see?</p>	<p>* Submitted by Meghan Curry, Executive Director at Insights El Paso.</p>
<p>26</p>	<p>https://youtu.be/OJokngXBp4</p>	<p>What volume of water can the rain barrels hold?</p>	<p>* Submitted by talkSTEM in partnership with Girl Scouts of North East Texas, with support from the High Tech High Heels non-profit.</p>
<p>27</p>		<p>Why such great symmetry?</p>	<p>* Submitted by Maya Leibman, talkSTEM board member and CIO of American Airlines.</p>
<p>28</p>		<p>Why do these minerals look like feet?</p>	<p>* Submitted by Kimberly Vagner, Director of the Gems and Minerals Center of Excellence at the Perot Museum of Nature and Science.</p>





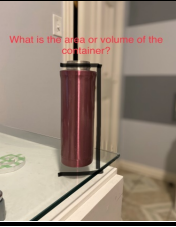
Sports

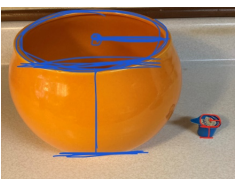
Submitted Pieces		Contributor
29	 <p>How can the size of a stadium be estimated from its capacity?</p>	An anonymous submission.
30	 <p>What shoe pattern works best for a long run?</p>	An anonymous submission.
31	 <p>What is the diameter of the basketball hoop?</p>	Submitted by Astra Zeno of the Young Women's College Preparatory Academy in Houston, TX, on behalf of her students.
32	<p>www.mathathome.mathlearningcenter.org/activity/1437</p> <p>Skateboard questions</p>	Submitted by the Math Learning Center, as part of their Math at Home series (mathlearningcenter.org).
33	 <p>What is happening in the brain during meditation?</p>	* Submitted by Dorsey Standish, Chief Mindfulness Officer at Mastermind Meditate.
34	 <p>What is the ideal pickleball angle?</p>	Submitted by Sonia Dhingra, high school senior at Greenhill School, Addison, TX.
35	<p>https://youtu.be/jdbdZYUxtio</p> <p>Why is the roof this shape?</p>	Submitted by Girls Inc. of Metropolitan Dallas as part of their Create Your Own walkSTEM project.
36	<p>https://youtu.be/RuBR-ivttNI</p> <p>Designing Games at the Cameron Indoor Stadium's Basketball Court</p>	* Submitted by Katherine Drinkwater, undergraduate at Duke University's Pratt school of engineering and member of Duke's chapter of Society of Women Engineers.



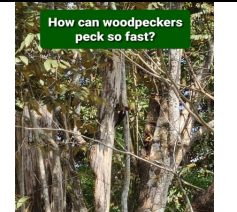

Art




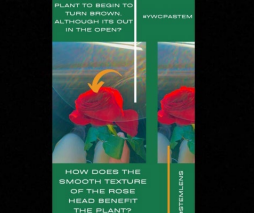
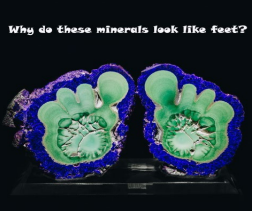
Submitted Pieces		Contributor
1	 <p>Using the candlestick as reference, how tall is the lamp?</p>	Submitted by Min Wang, on behalf of Dallas ISD high school students in the SMU college access program.
2	 <p>Shoe pressures</p>	* Submitted by Karishma Kishnani, digital marketing student, London, UK.
3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

 <p>8</p>	<p>Cross-generational sharing of STEM</p>	<p>* Submitted by Sonja Bernhardt OAM, Australian technology entrepreneur.</p>
--	---	--

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

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		Snowfall	* Submitted by Kayleigh Bucur, STEM Program Manager at The STEM Center of Excellence with Girl Scouts of North East Texas.
18		What's the best angle for tree climbing?	* Submitted by Annie Wilhelm, Math Educator and Associate Professor at SMU Simmons School
19		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/6917377063137676550?	Questions in nature	* Submitted by Jennifer Fee and Victoria Varlack of the Cornell Lab of Ornithology.

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

