



# for **GIRLS** Like **YOU**

MARCH/APRIL 2022

*the* **INVENTORS ISSUE**

MEET  
**LYDIA**

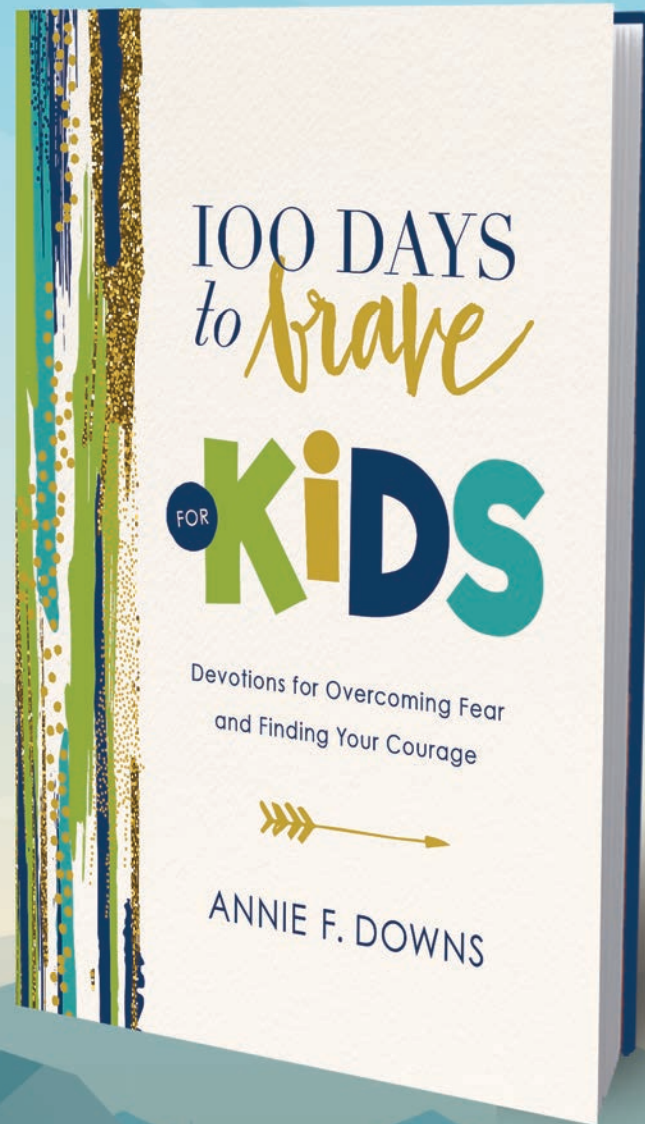
A GOD-POWERED GIRL  
AND HER GIRL-POWERED  
**INVENTIONS!**

**PLUS**  
INCREDIBLE WOMEN  
INVENTORS YOU  
SHOULD KNOW!

**BRIGHT IDEAS!**  
CLEVER INVENTIONS  
DREAMED UP BY  
GIRLS LIKE YOU!



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TO HELP YOU DISCOVER YOU ARE BRAVER THAN YOU KNOW  
AND STRONGER THAN YOU THOUGHT POSSIBLE!

## FOR GIRLS LIKE YOU

Volume 12 Issue 2

A publication of For Girls Like You Ministries

P.O. Box 681322  
Franklin, TN, 37068  
888.906.9055  
info@forgirlslikeyou.com

**FOUNDER**  
Wynter Pitts

**PUBLISHERS**  
Jonathan Pitts and Four Girls Like You  
in association with Roberta Croteau

**EDITOR IN CHIEF**  
Roberta Croteau  
roberta@forgirlslikeyou.com

**EXECUTIVE PRODUCERS**  
Alena Pitts Kaitlyn Pitts  
Camryn Pitts Olivia Pitts

**ART DIRECTOR**  
Mary Sargent

**CONTRIBUTORS**  
Brighten B.  
Valentina B.  
Bethany Denton  
Covey Denton  
Lydia Denton  
Janel Rodriguez Ferrer  
Dannah Gresh  
Jackie Marushka

**CIRCULATION DIRECTOR**  
Jamie Brooks

**WEB DESIGNER AND DEVELOPER**  
Ted Barnett

**SOCIAL MEDIA**  
Jillian Spencer

**COVER PHOTOGRAPHY**  
Covey Denton

**SUBSCRIPTIONS/CUSTOMER SERVICE**  
Call toll-free 888.906.9055 or email  
subscriptions@forgirlslikeyou.com

**THE PITTS CREW**  
(a group of incredible people who have lent  
their hearts and unique talents to keep  
Wynter's dream growing and thriving)

Courtney DeFeo  
Dione Dewitte  
Ken Ott  
Peta Pitts  
Taylor Watt

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hello FRIEND

**WHATEVER YOU DO, WORK AT IT WITH ALL YOUR HEART,  
AS WORKING FOR THE LORD.** Colossians 3:23

When you hear the word inventor, you probably picture: A man. From the 1800s. With crazy hair. In a lab. Maybe some electrical currents crackling around him. But ... that's mostly what we've learned from movies, because in real life, inventors have come from all eras, countries, backgrounds, and professions. Today, many of those inventors are women ... and in this issue, they are ALL girls like you!

Inventors are born when someone sees a need and sets out to find a way to fill it. Inside, you'll read about six women inventors in history who did just that and helped make the world a little bit better! We also had fun reading about your ideas for creative new inventions!

And then, there is **LYDIA**, our cover girl—a 13-year-old gifted with a wildly creative talent for invention and a heart for helping others. We were amazed at all the wonderful things Lydia has already invented (and won awards for!) and the things she hopes to invent to solve problems in the future. As one of God's Girls Lydia is an inspiration to all of us to use our gifts to serve others, which also means we are serving Him. She likes to picture her work as an inventor as one way of being God's hands and feet in the world.

**WHAT MAKES A SUCCESSFUL INVENTOR? CREATIVITY. CURIOSITY. PATIENCE. PASSION. PERSISTENCE. FAITH. HOPE. LOVE—** the same qualities that we can strive for in our everyday lives! In some ways, we are always inventors as we are continuously learning, growing and re-inventing ourselves. We may not be in a laboratory working through mathematical formulas or chemical potions, but when we look to Him and His Word as our guide, we can create a faith that will help us truly be the hands and feet of Jesus.

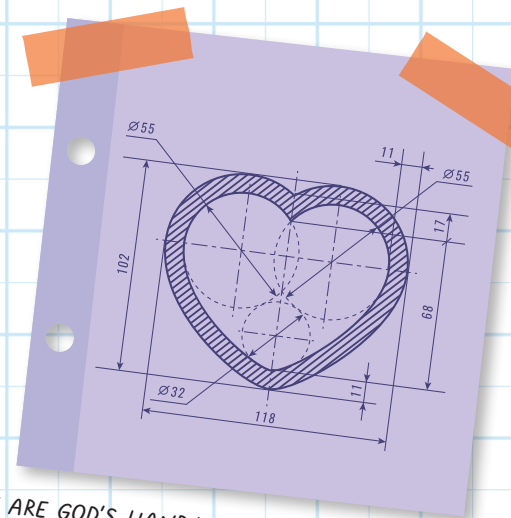
God, of course, is the ultimate inventor:

**But God made the earth by His power; He founded the world by His wisdom and stretched out the heavens by His understanding.**

Jeremiah 10:12

This Easter season is a great time to remember and celebrate all of God's great "inventions" and the gifts He's given you! He makes all things NEW! Use your ingenuity, your compassion, your knowledge to share Jesus' love through all you do.

**YOUR FRIENDS AT  
FOR GIRLS LIKE YOU!**



WE ARE GOD'S HANDIWORK, CREATED IN CHRIST  
JESUS TO DO GOOD WORKS, WHICH GOD  
PREPARED IN ADVANCE FOR US TO DO.  
Ephesians 2:10

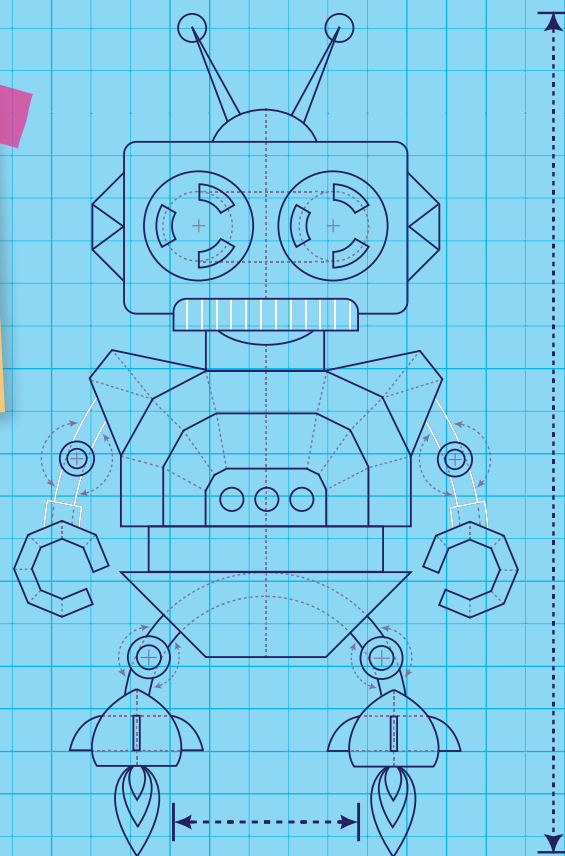


# THE INVENTORS ISSUE

FOR **GIRLS LIKE YOU**

MARCH/APRIL 2022

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## BRIGHT IDEAS

Our creative readers have put on their inventor caps and dreamed up a bunch of fantastic new inventions they would love to bring to the world.....20

## WOMEN OF INVENTION

Janel Rodriguez Ferrer introduces us to six women in history who were responsible for six amazing inventions that we still benefit from and use today. Sadly, most did not get the credit for their great work, but now we celebrate these women and their world-changing inventions!.....26

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# SPRINKLES

SPRINKLE JOY. SPRINKLE FUN. SPRINKLE BEAUTY.



## MADDIE MAKES IT REAL

Hi, my name is Maddie and I like swimming, writing, reading, making things for people, and playing the piano. My favorite **For Girls Like You** issue would probably be the prayer issue or the art one. My favorite Bible verse is John 3:16: "For God so loved the world that He gave His own son and that whoever believes in Him shall not perish but have eternal life."  
— Maddie (9)



## EVERYTHING IS BEAUTIFUL

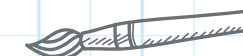
I drew a teenage girl that just got her hair done at the hair salon. I like drawing kids (especially teenagers). But the salon is not what made her beautiful. God did! He made everybody in the world beautiful. I love **For Girls Like You** magazine and you should too! Just remember that God loves you so much and made you beautiful in His image! — Darby (10)

## TREES OF LOVE

My drawing reminds me of the song "Faithful God" by my favorite band I Am They. So, I had to name it "Faithful God." Art is my favorite hobby and I love to draw, paint, and color pictures for other people! — Audrey (8)



CREATIVE



12

GOD-POWERED

## GIRL INVENTOR

LYDIA DENTON may be only 13 years old, but she has already made a mark on the world with her award-winning inventions! Get to know this super-smart Girl Like You who loves to use her brilliant ideas to help others, and to honor the gift that God has given her.....12





## IT'S SNOW MAGICAL!

I absolutely LOVE **For Girls Like You!** I just got the subscription for Christmas, and I can't stop reading them! They're so inspirational and have helped me put more faith in God and trust Him even more. I also love reading about other girls and how God has changed their lives. This is a painting I painted a few days ago. It was—and still is!—a very snowy day and I felt like I had to create something to remember it by. Snow to me feels magical—like right when something bad happens (like the pandemic) it helps to make it more bearable and very, very fun! The painting I made is called "Girl Meets Snow." It's just a girl in the snow but to me it feels magical! I don't know why but I feel like everyone should see it, even though it isn't the best painting! — **Savannah (10)**



## AND! YOU! INSPIRE! US!!!

I just got your magazines for Christmas and completely love them! When I grow up, I want to be a mom and an artist! I love all that you all do! I hope you like my drawings! Love y'all! JESUS LOVES YOU! LOVE YOUR MAGAZINE! YOU GUYS INSPIRE ME SO MUCH! — **Addyson (12)**

**WE'D LOVE TO HEAR FROM YOU!** We'd love to showcase your paintings, poems, songs, stories, drawings, photographs, anything! And we'd like to see you! Email your entries and photo to [sprinkles@forgirlslikeyou.com](mailto:sprinkles@forgirlslikeyou.com)!



## THIS SONG'S FOR YOU

Hi, I'm Eden and I'd like to share with you a song to God that I wrote called "Back to You." I love God, dogs, my family, friends and gymnastics! I wrote this song to encourage other girls like me to remember that God is always with them no matter what happens! — **Eden (8)**

## BACK TO YOU

How long do you need?  
How long will it take?  
How long can you go-o-o  
Before you make a mistake?

No matter how hard I try,  
No matter what I do!  
When something bad happens,  
I take it back to You!

Ooh ooh! Back to You!  
Ooh ooh ooh ooh! Back to You!

When the earth feels like crumbling  
And crusting away,  
I know-o-o  
You just need a say!

The bay moves with Your feet  
The mountains move  
With the breath of our God!  
Oh oh oh our God!

What will happen when it's all done?  
What will we need?  
Please say, prepare for fun!

No matter how hard I try,  
No matter what I do!  
When something bad happens,  
I take it back to You!

Ooh ooh! Back to You!  
Ooh ooh ooh ooh! Back to You!

When all my questions flee, to the name of God,  
I jump back with glee, for all He has done!

Oh, my God, my mighty God!

No matter how hard I try,  
No matter what I do!  
When something bad happens,  
I take it back to You!

## MEET

## VALENTINA

**Do you know how your name was chosen or who you were named for?** My mom found out she was pregnant in February and thought of Valentine's Day, which made her think "Valentina."



**Tell us about your family.** My parents own a vegan-food business and a cool food truck. My brother Antonio is 5 and loves Ninjago Legos.

**And tell us about your pets!** I don't have pets yet but hope to have a puppy in the future. My favorite animals are tigers and pandas.

**Describe yourself in three words.** Animal lover. Bookworm. Musical!

**What are your favorite hobbies?** Reading, creative writing, pottery and crafting

**What do you want to do or be when you grow up?** I want to be an author.

**What is something you want all girls to know about God?** That they can do anything through Christ who gives them strength

**What makes you laugh?** When my brother makes funny faces

**What makes you sad?** When it's too cold outside to play in the snow

**What is something that nobody would ever guess about you?** My favorite subject is history.

**What is one of your favorite memories?** Taking walks with my grandpa in my neighborhood when I was younger.

**Do you have an unusual talent or ability?** I can do a British accent very well!



I am 9 years old, and my brother Antonio is 5



I love doing fun things with my family!

## A GIRL LIKE YOU

**Where is your happy place?** At the beach in Miami finding pretty shells with my dad.

**What are some things on your bucket list?** Sculpting and cooking skills

**What has God been showing or teaching you lately?** To have faith in Him no matter what happens

**What is one of the coolest things you have ever seen? Or done?** We love to do Escape Room challenges in Lake George, New York. It was so fun! After being there for an hour, we completed it with literally two minutes left.

**Tell us about an invention you've already created OR an invention you would like to create!** I would create the **ROBO 246**, and it could be used by kids around the world. There would be switches to program it to do your chores and your homework, and it would cook professional food for you, and more! That's an idea that just popped up in my head.



## FAVORITE THINGS

**COLOR:** Turquoise and dusty pink  
**SONG:** "AMEN"

**SINGER/BAND:** for King & Country  
**BOOK:** *Anne Of Green Gables*

**FOOD:** Beans, rice, corn and guacamole  
**THING TO WEAR:** Sweatpants

**VACATION:** Miami Beach

**BIBLE VERSE:** Jeremiah 29:11  
"For I know the plans I have for you," says the LORD. "They are plans for good and not for disaster, to give you a future and a hope."



# GOD'S girl

DEVOTIONALS & MORE TO GROW YOUR FAITH

WYNTER'S WORDS



## I AM FREE TO WONDER

IF YOU HAVE EVER SPENT TIME AROUND A TODDLER, you probably know all about the “why” phase. But in case you haven’t, I’ll explain a little.

The “why” phase is when toddlers start questioning everything! They ask questions like, “Why is the grass green?” or “Why do I have a baby toe?” Sometimes their questions don’t make any sense, but that doesn’t stop them from asking! This can be a fun (and funny) stage because you get to help someone understand things about life and the world around them.

Even though you aren’t a toddler anymore, I want to encourage you to keep asking questions! You should always be free to wonder about the things you don’t understand and to ask about them. You may have questions about your life, your body, or your future—and that is perfectly normal, no matter your age.

As a matter of fact, God wants us to bring all our questions to Him—even the silly ones. He will never get mad or frustrated, and you can trust that the answers He gives you are true. He is our teacher, and He created you to be His student. And He is a gentle, patient, and kind teacher as you seek Him. God has given you all the information you need in His Word, the Bible. He is always willing to teach you His ways, and He wants to surround you with godly people who

are willing to lead you too. In fact, He has already put people in your life who want to help you learn and grow and answer some of your questions.

God wants us to wonder. That’s how we discover more about ourselves, about our world, and about Him. Seeking understanding never gets old, and you can always ask God for all the information you will ever need.

Adapted from *I Am Yours* by Wynter Pitts. Courtesy of Harvest House Publishers.



IF YOU NEED  
**WISDOM,**  
ASK OUR GENEROUS GOD,  
AND HE WILL GIVE IT TO YOU.  
HE WILL NOT REBUKE  
YOU FOR ASKING.

James 1:5 NLT

## DEAR God.

THERE ARE A LOT OF THINGS I DON'T UNDERSTAND, AND I HAVE SO MANY QUESTIONS. The older I get, the more I learn, but I still have so many things I don't know! Thank You that nothing I ask is too small, too silly, or too weird! I do not have to be ashamed when I need help understanding something. Please give me the wisdom to know who I can trust with my questions, and as I become wiser and learn more, help me to be willing to teach others. In Jesus' name — AMEN



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# LOL!

JOKES, FUNNIES & MORE!

**SCIENTISTS HAVE WEIGHED RAINBOWS AND DISCOVERED ... they're pretty light!**

**WHY ARE CHEMISTS GREAT FOR SOLVING PROBLEMS?**  
They have all the solutions!

**THE INVENTOR OF THE UMBRELLA WAS ACTUALLY JUST GOING TO CALL IT A "BRELLA."**  
But he hesitated.

**OF ALL THE INVENTIONS OF THE LAST 100 YEARS, the dry-erase board has to be the most remarkable.**

**THE INVENTOR OF THE BALLET SKIRT WAS STRUGGLING FOR A NAME FOR HER INVENTION.**  
Finally, she put tu and tu together.

**WHY DID THE CHICKEN CROSS THE PLAYGROUND?**  
To get to the other slide! —Ellie (11)

**WHERE DO PENCILS COME FROM?**  
Pencilvania — Reese

**EINSTEIN DEVELOPED A THEORY ABOUT SPACE. And it was about time too!**

**Good Idea**

**Space**

**question**

**research**

**Science**

SEND US YOUR FAVORITE LOLS! What jokes make you laugh? Have a great riddle to stump us? Have you drawn a cartoon you'd like to share? Anything funny at all—we want to hear from you! Email [LOL@forgirlslikeyou.com](mailto:LOL@forgirlslikeyou.com)!



## TRUE girl

WITH DANNAH GRESH

### TRUE GIRL POWER

AS YOU'VE SEEN THROUGH THE DIFFERENT STORIES IN THIS ISSUE, GIRLS CAN DO A LOT OF AMAZING THINGS! You can be a brilliant inventor, get your PhD in math, or discover the next breakthrough in technology. Those things should all be celebrated! But sometimes, even those accomplishments might not make you feel good about yourself.

**THERE ARE A LOT OF PROGRAMS AND THINGS GOING ON TO GET GIRLS YOUR AGE TO HAVE A GOOD SELF-ESTEEM.** Today I want to show you what "self-esteem" means. When you "esteem" something, you're saying it's good and has value. So, when you hear that someone has a low self-esteem, it means she doesn't think she has much good or value to offer.

It breaks my heart when I see a young girl crying because she doesn't feel special. I can remember a time in my life when I felt that way too. What if I told that girl who has "low self-esteem" she just needs to think about positive things and believe she can do anything because she's a girl? And what if I put a T-shirt on her that says in bold, pink puffy letters, "GIRL POWER!"? And what if I covered her in buttons and pins that say, "GIRLS RULE" and "SUPER GIRL" and all sorts of other wonderful things about girls? Will that solve her low self-esteem problem? I doubt it.

In 1 Timothy 1:12-17, Paul gives the real medicine for a low self-esteem sickness. You see, when Paul says he was the worst of all sinners, he really meant that. His job before he gave his life to Jesus was to hurt Christians and sometimes even have them killed! He absolutely hated people who loved Jesus. Yet God used Paul's life to bring millions of people to Christ.

Paul knew that anything good that came out of his life was because of God. In verse 12 he thanks Jesus for giving him strength to do what he did. Paul didn't have

any faith in himself, but he had all kinds of faith in God. He had a serious case of a healthy God-esteem.

It really is fun and special to be a girl, but that's not going to keep you encouraged when you're not feeling good about yourself. Knowing that you can do all things through Christ is where real value comes from (see Philippians 4:13). The answer to self-esteem problems doesn't come from believing in yourself. It comes from believing in God through you.

With your mom, thank God that you are a girl. And then tell God that you know you can't do anything without Him. Ask Him to fill you up and make your faith bigger today.

THAT'S WHY I TAKE PLEASURE  
IN MY WEAKNESSES,  
AND IN THE INSULTS, HARDSHIPS,  
PERSECUTIONS, AND TROUBLES  
THAT I SUFFER FOR CHRIST.  
FOR WHEN I AM WEAK,  
THEN I AM  
**STRONG.**  
2 Corinthians 12:10





"I have a talent for INVENTING! I love to invent and create to solve problems."

# A GOD-POWERED GIRL WITH HER

GIRL-POWERED

## INVENTIONS

LYDIA DENTON TELLS US THE EXTRAORDINARY STORY OF HOW SHE BECAME AN INVENTOR!

**I BELIEVE THAT GOD HAS CREATED EVERY ONE OF US WITH OUR OWN UNIQUE TALENTS AND ABILITIES.** Some of you are amazing singers, some of you are caring and kind, some of you are the best roller-skater in the school, and some of you might be an inventor like me. We all have so many wonderful traits that have been gifted to us by God and He wants us to use them so that we can be His hands and His feet here on Earth and make the world a better place because we are a part of it.

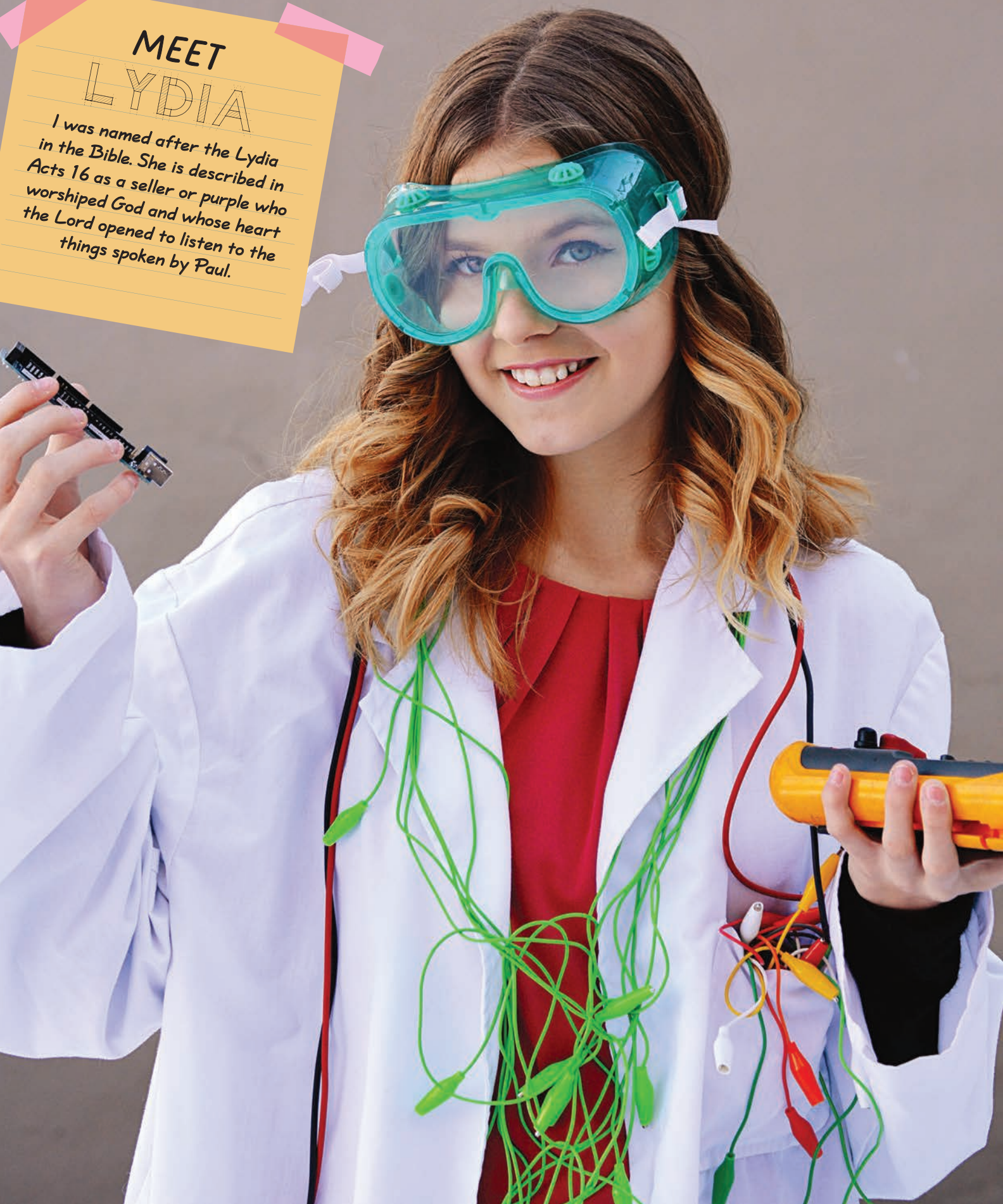
When I was younger, I would see things I didn't like about the world. I would complain to my mom about it and she would tell me: "Complaining doesn't fix the problem. What can you do to make it better?" She was right. Complaining just gets your mind focused on all the negative things going on the world. We need to try and take action to make things better tomorrow than they are today. Sometimes that means changing your attitude or your actions. If you see someone who doesn't have food or clothing, you can take steps to help them get what they need. If someone is sad, you can listen to their story, pray with them and offer them your friendship. Sometimes though, there isn't an easy fix ... and that is how I became an inventor.

I first started inventing things when I was in the second grade. I drew pictures of my inventions in a special inventing journal. One of my first inventions was called the "RC" which stood for Recognition Cabinet. I imagined an invention where I could store all my candy and the special things I didn't want my brother or sister to touch. It would only open using facial recognition! No key to lose, no tricky lock to open, just a facial scanner, and it would open like magic. I had a lot of inventions in my journal. Some were silly ideas, some were really terrible ideas, some were ideas that were already invented ... it was fun to draw and imagine all of the wonderful things I might create! After I had been drawing for a while, I started to make my first prototypes. I used cereal boxes, toilet-paper rolls, glue and LOTS of tape! None of the prototypes worked, but it was satisfying to see them and touch them and be able to show my mom and friends some of the things that were bouncing around in my brain. By the time I was in fifth grade, I had learned about electric circuits and started to learn how to program microchips using YouTube videos and getting help from my big brother. I started adding things like motors, lights and sounds to my prototypes to make them more exciting.



## MEET LYDIA

I was named after the Lydia in the Bible. She is described in Acts 16 as a seller or purple who worshiped God and whose heart the Lord opened to listen to the things spoken by Paul.



Our whole family loves everything about science!

**I BELIEVE** God has given each person his or her own talents. Once you find your talent, use it for good and to make a difference in the world. Don't spend your time wishing you had talents that other people have! Learn to love the talents you've been given.



**WHEN I'M AN ADULT ...** I want to be involved in theater or acting and SFX makeup. (I also want to be a scientist or engineer and invent things.) This past Fall I was in a play called *Our Town* and my brother in the play was Seth Schenall. He is a young actor who was in *The Tomorrow War* with Chris Pratt. That was pretty exciting to get to hear his stories about Hollywood and acting. It was also so much fun to get to do an outdoor play and act again after such a long break!

**MY FAMILY!** My mom is a science teacher. I have an older brother Elijah (15), and younger sister Bethany (12). And I have a ton of pets! We have a hedgehog named Thistle, and three rescue dogs—two pugs named Bubsy and Pudge and a German Shepherd/Dachshund mix named Lily Benderson. We have a cat called Baby Cat, and three rescue lizards—two bearded dragons called Puff and Spike, and a leopard gecko named Blaze. We also have two goldfish. The most unique pet though is probably our GIANT Madagascar Hissing Cockroaches! We have over 100 cockroaches in all! We have four birds as well. Three are budgie parakeets (Willow, Frog and Fern) and one is a green-cheeked conure named Koda.



**WHAT GOD HAS BEEN TEACHING ME** Lately I've been having to learn how to be content with things that are out of my control. COVID canceled and closed many of my favorite activities like volunteering and doing science shows and acting in our local theater. It was a hard adjustment because the month before everything closed, I had been acting in three plays all at the same time—my school play, a play at a local college and a play with ACT for youth. To go from practices seven days a week to staying at home full time was really tough and really isolating. I am learning to enjoy my family and siblings, enjoy the times when I can safely be with friends, and learning how to be content.

## BEST YES

**THE BEST THING I'VE SAID "YES" TO ...** is talking about inventing. I've been able to speak to a group of teachers at Shippensburg University, and a group of inventors in Cypress on Zoom. I have worked alongside a group of engineering students at NC State University and so many others. I have spoken with reporters from many places around the world! It can be scary to be interviewed by adults but getting to share my excitement for inventing is amazing!





### WHEN I WAS 9 YEARS OLD, I WAS WATCHING THE NEWS AND SAW SOMETHING HORRIBLE HAD HAPPENED.

I saw that a dad had forgotten twin babies in a hot car and both babies died from the heat. I was so sad and upset. My mom said something to me that changed my whole life. She said, "Feel your feelings, just don't get stuck there. It's OK to be sad, but what can you do to help make this better?" My first idea was to raise money for the family, but I realized that wouldn't help the next baby who was left in a hot car. I wanted to make an invention so that no baby would ever die again from being forgotten in a hot car. So I got out my invention journal and started thinking and planning. I wanted the car seat to call 911 if there was a baby in a hot car. I wanted it to be able to tell the police where the car seat was. I wanted it to have an alarm to get people's attention. I wanted it to sense if there was a baby there and be able to tell if it was hot or not. There were so many things to think about it was overwhelming. But I did it one step at a time. My sister helped me so much. When I got frustrated, she would listen and help me remember why I was working so hard—and bring me snacks! I had never tried to write code for a program like that and my big brother helped me write the code down.

It took over 100 tries before it worked the first time. After 100 tries of it not working and having to try and fix the code or reconnect the wires, sometimes I got so frustrated I cried. I had to walk away a few times to calm down too. Inventors must be ready to stick with something and really learn from their mistakes. Did you know it took Thomas Edison over 1000 tries to get a lightbulb to work? You can't give up! Once I had my prototype working, I made a video so that I could share it with the world. I entered the invention in a contest called the CITGO Fueling Education Contest and I won! I got to test my car seat with the 911 center and show that it worked. The car seat was my first-ever working prototype! Scientists from all over the world heard about my invention. I got to talk with reporters from Norway, Netherlands, Great Britain, Ghana, and all over the United States. I also got asked to speak at several universities and even got to teach a group of kids in Cypress on Zoom.

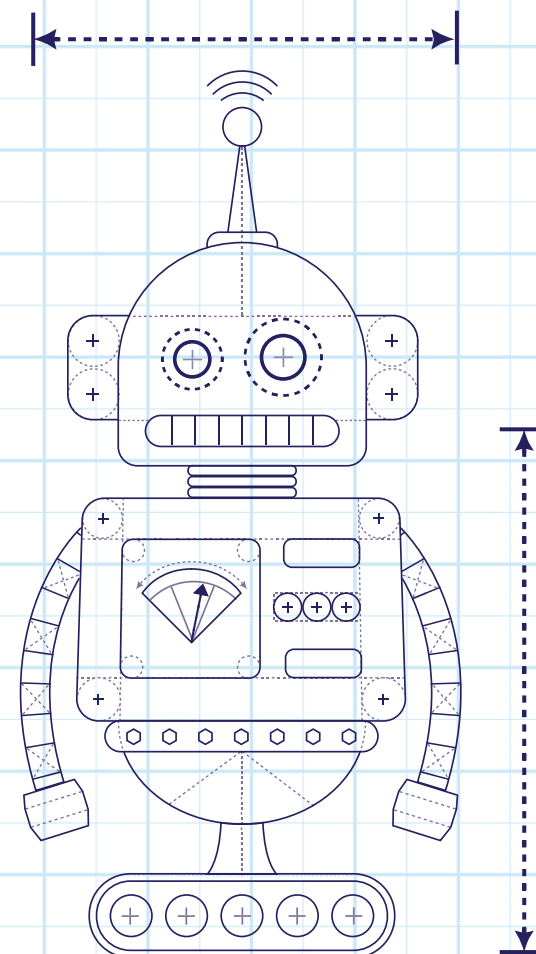


The Family That Invents Together has also started a non-profit called REGAME to help combat electronic waste AND help others. They collect and refurbish old and unwanted phones, laptops, monitors, and any other broken electronics and then donate them to people who need them!



### SINCE THEN, I HAVE HAD A LOT OF FUN BUILDING MORE AND MORE PROTOTYPES.

I worked with the National Hockey League and a group of Engineers at NC State university on a new helmet to prevent concussions. This invention was fun because it used biomimicry—which is inventing something based on an animal. I looked at a woodpecker's skull and all the special things it does to keep from injuring its brain when it is pecking on wood and tried to copy that into a helmet. I've invented a really neat device to help with blood-oxygen monitoring as a way to help solve child drownings. I've worked with a group at my school to make little water wheels to power pumps and stop road flooding in our town. I love to make working prototypes and see the ideas that I have stuck inside my brain come to life and actually work!



### FAVORITE THINGS

**COLOR:** Seafoam green and aquamarine  
**SONG:** "Louder Than Words" from the musical *Tick, Tick ... Boom*

**SINGER/BAND:** Newsboys

**BOOK:** *Blue* by Joyce Hostetter

**FOOD:** Potatoes au gratin

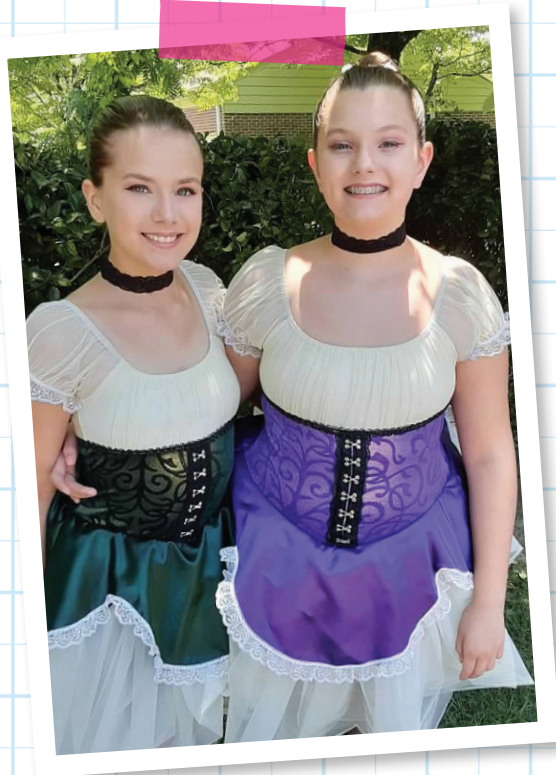
**THING TO WEAR:** Sweaters and jeggings  
**HOBBIES:** Acting, special-effects makeup and science!

**CLASS IN SCHOOL:** Science

**BIBLE VERSE:** Philippians 2:3-4

Do nothing from selfish ambition or conceit, but in humility count others more significant than yourselves. Let each of you look not only to his own interests, but also to the interests of others.





I am the secretary on the Junior Board at the Science Museum, and I love to volunteer with all of the animals there. I especially love taking care of the lizards and snakes and Dundee the alligator.

One of my favorite things to do is special-effects makeup. I love to try and recreate some of the amazing makeup that they do in the movies and on stage. It is so much fun! My science knowledge comes in handy when I need to mix up some skin-colored putty or fake blood for the science looks!

### BUT WAIT, THERE'S MORE!

A lot of times people see me and wonder if all I do all day every day is invent things. The answer is a big NO! I have so many different interests!

I love public speaking. When I was 12, I got to go to the World Regional Oratorical Competition for the Optimist Club and compete with kids all over the world in public speaking. It was so much fun!

I also love to act and sing in our local youth community theater and at my school. I go to a performing arts school, and I am a theater major so I get to practice acting every day. One of my favorite roles of all time was when I got to be Helen Keller in the show *The Miracle Worker* at our local college. Using sign language and throwing a fit on stage was so much fun!

All that acting and public speaking experience comes in handy because my siblings and I put on science shows. We've volunteered at Ronald McDonald Houses doing science nights, we've done summer camps at the local Baptist Children's Home for the foster kids there, and I help with summer camps and school shows at our local science museum too. My siblings and I are also the "Science Kids" on our local news channel. Every month or so we wake up at 3:00 a.m. and go to the TV studio where we teach the morning-show anchors all about science.

### LYDIA'S TOP TIPS FOR INVENTORS

1. Find a problem you want to solve
2. See what other people have already invented and get ideas
3. Sketch out your invention in a journal—be as detailed as possible and label your drawings
4. Make a prototype out of recycled materials
5. Start learning how to make circuits and add in some fun lights or sounds to your prototype
6. Keep trying! All good inventors fail! Learn from your mistakes and keep trying!
7. Share your amazing ideas with the world! There are lots of inventing competitions out there for kids just like you.

## NOTES FROM A SCIENCE TEACHER (and Lydia's mom!)



BY COVEY DENTON

WHAT IS

# SCIENCE?

**SCIENCE IS THE STUDY OF THE WORLD AROUND US THROUGH OBSERVATIONS AND EXPERIMENTATION.** Science is everywhere in the world around us ... from the kitchen, where heating up sugar can turn it into hard candies or caramel ... to the craft room, where polymers can be used to make an awesome batch of slime ... to the classroom, where we can study physics, earth science, chemistry and biology in school. Science is everywhere and there is something for everyone to love in the world of science!

I love to teach science because kids are naturally curious, just like a scientist! Scientists have curious minds and often ask questions like:

"WHY DOES..."

"WHAT IF I..."

"I WONDER WHAT WOULD HAPPEN IF..."

Science is a wonderful part of so many jobs! Nurses use science to figure out the correct dosage to help their patients. Food chemists use science to create new exciting flavors and new ways to keep our food safe. Fashion designers use science when they create new fabrics and materials like polyester to make durable clothing. Architects use science when they figure out ways to make bridges and buildings safe.

So, whether you are curious about why earthquakes happen, how laundry soap gets your clothing clean, how your blood fights off germs, or why the clouds turn dark and grey when it is about to rain, science can help you make observations about the world around you and learn how God's magnificent creations work!

### SO, WHAT DOES SCIENCE HAVE TO DO WITH INVENTING?

When you are inventing things, you are using STEM. STEM is an acronym that stands for Science, Technology, Engineering and Math. You can make scientific observations of the world, combine them with some cool technology, engineer (build) an invention and collect data using math.



# You've Got the **BRIGHT IDEA**

CHECK OUT THESE CLEVER  
INVENTIONS DREAMED UP BY  
GIRLS LIKE YOU!

**OUR READERS** PUT ON THEIR  
INVENTOR HATS AND CAME UP WITH  
SUPER-CREATIVE AND HELPFUL INVENTIONS.  
MAYBE ONE DAY YOU'LL BE ABLE TO HAVE  
SOME OF THESE IN YOUR HOME!



**HADLEY**  
(8)

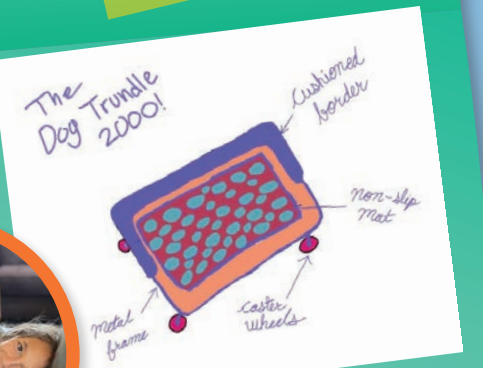
My invention is a little backpack that can clean and fold clothes with a mini robot inside. The people who would use it are mainly elders, but anyone could use it. I would call it **MY CLEAN BACKBOT**. My inspiration came when I needed organized clothes, so I thought of making a backpack that can clean. This would also help older people like my great grandma.

My inspiration for this invention would be my dog, Waffles. When I realized that my dog likes to sleep on my bed, I thought it would be cool if there was a dog bed trundle just for him. So, I decided to draw it out! I would call it the **DOG TRUNDLE 2000**. It would have a cushioned border so your dog bed would not fall off, and a non-slip mat so that the bed would stay in place. It would be made from a metal base frame and caster wheels so it can slide on hardwood or carpet. At night you could pull it out from under your bed so your dog could sleep next to you! I would hope that all dog lovers/owners would want to have this invention for their dog.



**RAEELYN**  
(6)

I would call my invention the **ODOMADIC CLEANER CAR** and everyone could use it! I thought of a car, and cleaning, and put it together to make a cleaning car. You would press a button and then it would clean stuff, and people could ride in it at the same time.



**NAOMI**  
(12)





## KATE (11)

I would call my invention the **TWIST AND ERASE** and anyone who likes to use pencils could use it. Students, artists, and scientists would find it useful. You twist the top of the eraser and more eraser comes out. This is similar to a mechanical pencil that you twist at the bottom for more lead, except you twist the top for more eraser! My inspiration came from all the times I run out of eraser on the top of my pencils. I often have to get a new pencil or a separate eraser just because pencils don't come with enough eraser and I wondered if I could create a pencil with more eraser!

## JOVIE (8)

I would call my invention the **WATER CATCHER**. Anyone 1 to 100 years old could use it—young children learning to use water bottles, elementary-age kids, and grandparents! When you drink out of your water bottle it often drips or spills. My invention would catch the water so that it doesn't drip down your shirt. There would be a circular drip catcher that could attach to a water bottle. A tube would connect the catcher to the water bottle, and the spilled water would make its way back into the water bottle. My inspiration was noticing that people often spill water on their shirts.



## AZARIA (10)

I would call my invention the **HEAD MOVER**. It would be a machine that when somebody braids your hair, they just pull a lever and it moves your head to the position that the stylist needs you to be in. It will also help hold your head up if you are sleepy and fall asleep! The reason I want to create it is because when my mom does my hair she always asks me to move my head to different positions. Sometimes if the style takes a couple of hours to finish I fall asleep ... but this will make sure that my head stays in the right position for my mom.



## CORA (12)

My invention is called the **SOLAR HAT**. People who like to be outside or are in amusement parks would use this product a lot, but it can be for anybody who wants it. It is a regular baseball hat but it is covered with solar panels. It would have a phone-charger cord attached to the place where the solar panels' energy is stored. Then, people could attach their phone to the charger and their phone would charge while they walk! The cord would also be extendable so you could put the phone in your pocket or hold it in your hand! My inspiration was that I know that it is very annoying to be at Disney World, for example and need to charge your phone, but you are in a hurry to get in line for a ride. With the Solar Hat, you would not have to worry about that! Your phone would charge while you wait in line, and it would be reusing energy! I hope you like my invention idea!



## KEREN (11)

An invention I would like to create is a machine that unloads the dishwasher! I would call it the **DISH-PUT-AWAY-ER** and everyone could use it. A machine like an arm would come out from the side of the dishwasher to grab each dish and put it away in the cupboards. My inspiration is that I really dislike unloading the dishwasher—but this machine also could really help someone who has a bad back or needs help with household chores.

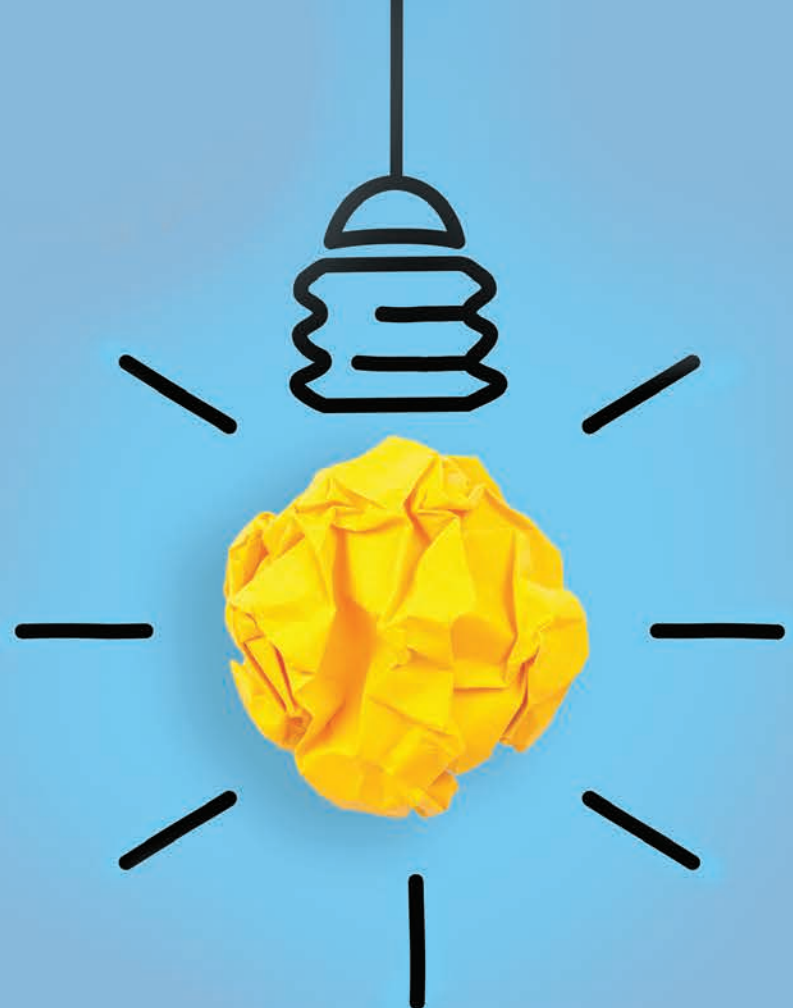






**JESSA** (10)  
**AMELIA** (11)

We are the inventors of the **BOX OF PAINTED PRAYERS!** This invention is for everyone to use. Our inspiration was that we LOVE art, and we think prayer should be a part of everyone's life! Here's how it works: Paint a picture then write a prayer on your picture. Look up a verse in the Bible about your prayer and write it on a small piece of paper. Attach your painting to the box and then put your verse in the box.



I have an idea for an invention for something useful! I was thinking about making air fresheners! I would call them the **SMELL GOODS!** and anyone could use them, but mainly athletes or for exercising stuff. I would have small organza bags and use either cheesecloth or another relatively thin fabric and put baking soda and essential oils in it and tie it with a string so nothing spills out. Then I would put it in the organza bags. To use, you would stick it in your shoes, closet or anything that can get smelly! I am a dancer who works out four to five days a week and to be honest, sometimes my dance shoes or even dance bag can get a little smelly! That was my inspiration for the Smell Goods!

## HOW ABOUT YOU?

AFTER READING ABOUT ALL OF THESE UNIQUE INVENTION IDEAS, YOU MIGHT HAVE SOME OF YOUR OWN! HERE'S A GREAT WAY TO START WITH A CHALLENGE FROM LYDIA:



## HERE'S MY CHALLENGE TO YOU!

One day write down all of the "problems" you encounter from the time you wake up until you eat dinner that night. Before bed, look at the list and pick one thing that you wish you could solve with an invention.

Draw your idea and add a description explaining how it would work and what problem it would solve.

If you'd like to share your idea with me and **FOR GIRLS LIKE YOU**, email

[editor@forgirlslikeyou.com](mailto:editor@forgirlslikeyou.com). I love to see what other girls like me are inventing!



I would like to invent **A THREE-WAY REVERSIBLE OUTFIT!** Here is how it would work: First, you can flip your shirt or leggings inside out and then you have new design on your outfit. Second, you'll find hemmed holes at the ends of your sleeves, leg holes, or bottom of your shirt. When you pull the two reversible fabrics inside out, you'll get your third reversible outfit! I think this would be perfect for people who don't have enough money to buy a lot of clothing. Then they could have multiple options to choose from. Who knows? Even girls like me might like it too! I'm home-schooled and I love to sew clothes for my 18-inch doll. I've been sewing since I was 7 years old. My grandmother, who I call Abuelita, passed away when I was 6 years old. When I was 10, I got my Abuelita's old sewing machine for Christmas. My other grandmother, who I call Grammy, taught me how to sew on my Abuelita's sewing machine. I think about my Abuelita and Grammy every time I sew. I love that they both inspired me to sew beautiful things!



# GREAT WOMEN inventors YOU SHOULD KNOW!

THROUGHOUT HISTORY, GIRLS LIKE YOU HAVE GROWN UP TO BECOME WOMEN OF GREAT ACCOMPLISHMENT.

Unfortunately, they have not always been given the recognition they deserve. Sometimes they have even been hidden from history books. This is slowly changing. But the truth is God made everyone—boys and girls—in His image. Also, He blesses us all with interests, abilities and opportunities so that we can better blossom into the people He made us to be.

Let's celebrate and learn more about some of these women. You may not have heard of all of them, but one thing is for certain: God blessed them with amazing minds and the power of creativity!

JEANNE  
VILLEPREUX-  
POWER



## INVENTED THE AQUARIUM

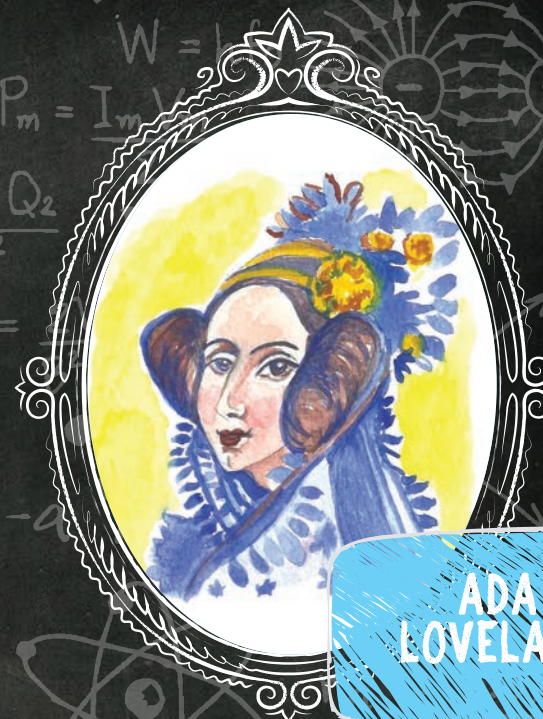
Born in 1794, **JEANNE VILLEPREUX-POWER** is the inventor on our list who lived longest ago.

French Jeanne entered the world as a unique and talented person with a very active mind. Although she lived at a time when women didn't really have careers or the same rights as men, she was determined to pursue her own interests—and she had a lot of them!

When she was 18, she walked 250 miles to Paris to become a dressmaker. She not only succeeded, she got to design a wedding dress for a princess! After she married, she became interested in studying nature. She collected rocks, fossils, plants, shells, etc., and wrote books on the environment and on the mathematics and geometry that can be found in nature.

When she turned her focus to marine life, she found a need to build a structure to hold her living specimens, and in 1832, ended up inventing the aquarium! In fact, she created three different kinds, including of course, the glass aquarium familiar to all of us today. For years (and even now) many have credited Philip Henry Gosse as the inventor of the aquarium (he did construct his own, coined the term "aquarium" and made them "fashionable"), but his "invention" actually came 21 years after Jeanne's!

ADA  
LOVELACE



## INVENTED THE FIRST COMPUTER PROGRAM

**ADA LOVELACE** was born in England in the early 1800s. Her mother was afraid that Ada would turn out like her father, the wild and famous poet, Lord Byron. So she kept Ada home, forbade her from reading poetry, and had her tutored heavily in math and science.

Luckily, Ada turned out to be a natural STEM girl. In fact, she was something of a genius. When she was just 12, she designed a mechanical flying horse and even wrote and published a book about it.

When she was 17, she met Charles Babbage, an inventor who was working on something he called an "analytical engine"—that is what would later become known as a computer. Nine years later, Ada wrote pages and pages of notes not only on what the invention could do, but how she imagined it could be used in the future. In those notes she worked out an algorithm detailing how to set up the engine to perform certain calculations on a loop. These instructions are the first-known recorded computer program.

Camps that teach girls to code are popular now. But it turns out that it was a girl—make that a young woman—who invented computer coding in the first place. There is even a present-day computer programming language called "Ada" which was named after her.





MARY ANDERSON

### INVENTED THE WINDSHIELD WIPER

Picture it, New York City, 1902! A snowy winter's day. **MARY ANDERSON** gets into a streetcar (trolley) only to have her ride continually stopped every few minutes. Why? Because the driver kept getting out to clean his window in order to see where he was going! This prompted Mary to think the thought that most inventors have before they get their big idea: *There has got to be a better way!*

Once back home in Birmingham, Alabama, Mary designed a wiping blade that could be built into a vehicle and operated by the driver from the inside. A year following her experience in New York, Mary was awarded the patent for her "window cleaning device."

Unfortunately, she failed to make any real money from her invention. Mary's idea was ahead of its time. Cars were not in wide use yet, and appreciation for the usefulness of her invention would not come until after her patent expired in 1920.

MARY SHERMAN MORGAN



### INVENTED ROCKET FUEL THAT GOT THE FIRST U.S. SATELLITE INTO SPACE

It was the 1920s in rural North Dakota, and **MARY SHERMAN MORGAN**'s parents kept her out of school to work on their farm. There her interest in chemistry was literally fueled by a fascination with the coal that kept her family warm in the winter. "How does it all work?" she wondered.

When she was 8 years old, the sheriff made Mary's parents finally send her to school. She graduated at the age of 19 and then ran away from home ... to go to college! After only two years of study, she took a job as a chemist to help with the war effort. When the war was over, she began working with fuel for an aviation corporation.

But in 1957, when Russia successfully sent a satellite into space, the United States government was left scrambling to catch up with their technology. Mary came to the rescue when she calculated a formula for a fuel (later called Hydyne-LOX), which fit all the criteria needed for a successful rocket launch of their own. And in 1958, thanks to her, this happened when the US launched its first satellite, Explorer-1, into space and secured Mary's place as the first female rocket scientist in United States history.



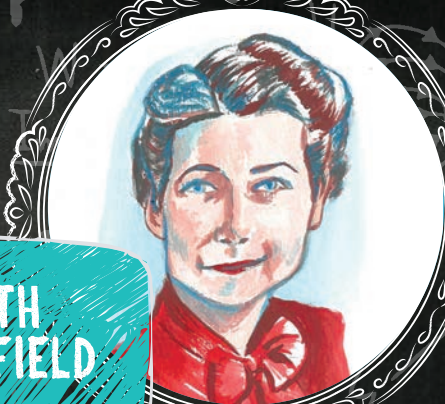
PATRICIA BATH

### INVENTED THE LASERPHACO PROBE AND REVOLUTIONIZED CATARACT SURGERY

While **PATRICIA BATH** was still a young ophthalmologist (eye doctor/surgeon) she found out that black people were twice as likely to go blind from eye disease. This inspired her to co-found the American Institute for the Prevention of Blindness. She then went on to develop a special laser to make cataract surgery not only faster, less painful, and more successful, but truly life-changing. With her invention of the Laserphaco Probe in 1986, Patricia became the first black woman doctor to get a patent for a medical purpose. More importantly, her invention restored sight to people who had been blinded by cataracts for even as long as 30 years. Since its invention, Patricia's laser has been responsible for improving the sight—and lives—of literally millions of people around the globe.

### WHAT DID YOU THINK ABOUT THESE WOMEN?

Don't forget, at one time they were all girls like you. Maybe one day your name will be in an article like this after you've created the next great invention that helps humankind, the environment, improves space travel or even tops the chocolate-chip cookie as America's favorite dessert!



RUTH WAKEFIELD

### INVENTED THE CHOCOLATE-CHIP COOKIE

Finally, it was **RUTH WAKEFIELD** who was responsible for what is perhaps the most important invention of all time: the chocolate-chip cookie! OK, maybe it's not the most important ... but it's definitely one of my favorites!

And it's accidental, too. Back in 1930 Ruth owned a small guesthouse called ... wait for it ... the Toll House Inn. One day, while trying to whip up a batch of chocolate cookies for her guests, she found she had run out of baker's chocolate. Needing an alternative, she grabbed some Nestle's semi-sweet chocolate from her pantry, broke it into bits, and added the pieces into her mix. "The chocolate will melt inside the cookies as they bake," she thought, "and I'll have chocolate cookies for my guests after all!" But that's not what happened. Instead, the chocolate-chip cookie was born!

Her guests loved the delicious invention. Ruth named them "Toll House Crunch Cookies" and published the recipe in a magazine. Eventually she made a deal with Nestle to have her recipe printed on every package of chips they made, and they supplied her with chocolate for the rest of her life.

P.S. Chocolate-chip cookies have been the most popular cookie in America for nearly 100 years now!





# STEMgirls

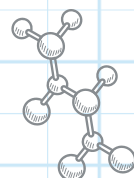
SCIENCE FUN WITH THE DENTON DUO

Sisters Lydia and Bethany

## LEARNING ABOUT CAPILLARY ACTION

With a fun experiment you can do at home with just a sheet of construction paper and bowl of water!

**Supplies:** construction paper, scissors, permanent marker, bowl of water



## BLOOMING PAPER FLOWERS & WIGGLY WORMS



**STEP 1:** Cut flowers out of construction paper. We folded our paper into fourths and cut a flower petal shape along the fold.



**STEP 2:** Experiment with different shapes and sizes. Draw a face on your flowers.



**STEP 3:** Use the scraps from your construction paper to cut strips and accordion fold the strips to make a worm. Draw a face.



**STEP 4:** Gently fold the petals of your flower in toward the center.



**STEP 5:** Float the flower on top of the water ...



WHAT DID YOU NOTICE?



**STEP 6:** Put the worm on top of the water ...



WHAT DID YOU NOTICE?

## WHAT'S GOING ON HERE?

As your paper flower floats, the petals start to unfold. The worm will also absorb water and straighten all the way out. Paper is made from fibers from plants. Those fibers can absorb water through a process called capillary action. When the fiber absorbs, it swells up and pushes the flower open and makes the worm straighten out. You can try this with other types of paper too! How would tissue paper work? Paper towel? Notebook paper?

# faith SERVICE. FUN.

WITH AMERICAN HERITAGE GIRLS

MEET

## BRIGHTEN

A 15-year old American Heritage Girl Patriot from Lubbock, Texas, who knows a thing or two about invention and innovation!



Brighten and Troop TX0619 working on their Robotics Badge!



Brighten's Favorite Bible Verse: Matthew 5:15-17  
"Let your light so shine before men, that they may see your good works and give glory to your Father who is in heaven."

## AMERICAN HERITAGE ROBOTICS!

**WORKING ON MY ROBOTICS BADGE** allowed me to have an experience I might not have had if not for my American Heritage Girls Troop—TX0619. My eyes were opened to the latest innovations technology has to offer—from robotic body parts or helping amputees, to doing simple things like turning on a light switch. *Do you know what a microcontroller is?* We learned that microcontrollers are heavily used in robotic automation. Our group set out to understand a microcontroller. We landed on a project for our learning lab in which a microcontroller opened a door latch. Through this experience, I see clearer how following God's design for my life has built one experience on top of another.

Previously, I thought if a project involved robotics, then it was contained in labs or factories and they were complicated and complex. However, after studying with my dad and working with the girls in my unit, I learned it's much simpler than I had once thought. We used an Arduino Uno Kit to learn how a microcontroller works. In short, these kits contain sensors, circuits and USB ports to build and send messages which control whatever part is attached to it. We programmed each step of the process to complete a specific task—to open a latch. If we missed a step or did a step incorrectly the latch would not

open. Each gear, wire, and circuit worked together to accomplish a common goal to open the latch. In the process, our greatest learning tool was failure, better known as trial and error. Finally, after much trial and error, the latch was released, and we celebrated a victory because we accomplished our task! I can now build an automated door latching system that keeps my brothers out of my room!

Understanding robotics helps me as a believer in Christ recognize the importance of following a design to complete the small tasks, because each minute step matters. Each step builds into the design our Creator has for us. Each of us fulfilling our part helps each other to complete the tasks and challenges God gives us. Microcontrollers are a great way to understand all the different jobs. Like it says in Romans 12:4-5: "Now we have many parts in one body, and all the parts do not have the same function, in the same way, we who are many are one body in Christ and individually members of one another."



## ROBOTICS BADGE

Working on this AHG Badge gave me a new understanding of how robotics works. Being in American Heritage Girls has helped me find my place in the body of Christ. I am excited to continue in American Heritage Girls and pursue each step God has designed for my life.

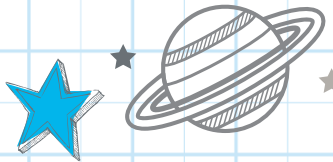
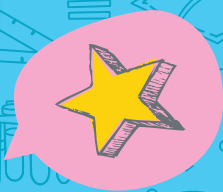


Are you interested in being an American Heritage Girl and earning badges like Brighten? If so, you and your parents can learn more about the program at [AMERICANHERITAGEGIRLS.ORG](http://AMERICANHERITAGEGIRLS.ORG).



# GO Girl!

WITH JACKIE MARUSHKA



## NEVER GIVE UP



**AH, CREATIVITY! IT'S HOW GOD OPENS THE BIBLE IN GENESIS 1:1 - "IN THE BEGINNING GOD CREATED THE HEAVENS AND THE EARTH,"** which perfectly sets the tone for this issue's topic of invention and creativity!

There's a saying I first heard when I was a little girl: **"Necessity is the mother of invention."**

This comes from one of Aesop's Fables called "The Crow and the Pitcher." Here's the story: A thirsty crow was looking for water and noticed a water pitcher from his perch. He flew down to investigate further and was happy to see the pitcher still had a little bit of water in it. There was one problem though, the pitcher was tall and had a narrow neck. He tried to tip the pitcher over, but he wasn't strong enough. He tried to wedge his beak into the narrow opening but no matter what he tried he could not reach the water. Then an idea came to him! He began collecting pebbles and dropped them into the pitcher one by one. With each pebble the water rose a little higher until at last he was able to reach it with his beak.

The lesson here is that even if you don't literally invent something new, like a tool, or an app or a new toy, an invention can also look like finding a solution. The crow tried looking at the problem in several ways and eventually solved his problem and got his cool drink of water.

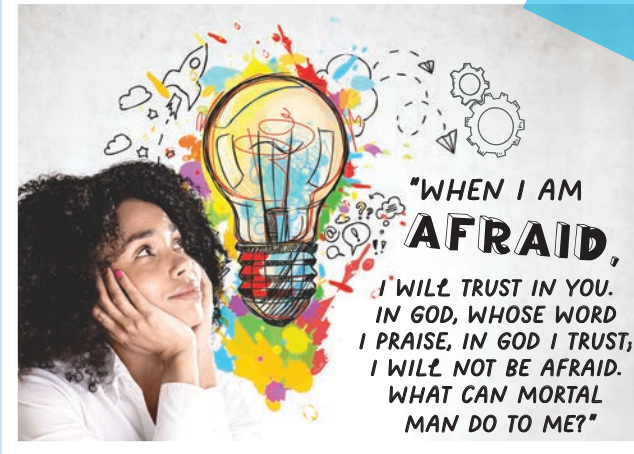
Science, Technology, Engineering and Math are all ways you can express your creativity and inventive nature and I encourage you to pursue the ideas God inspires in you!

If you get stuck, ask your parents or teacher to help you. If you're afraid of failure or nervous your peers may laugh at your idea, just remember that God planted that idea in you so trust in Him for courage.

Thomas Edison, the inventor of the light bulb among other things, said, "I have not failed, I've just found 10,000 ways that won't work." Isn't that great? Many of his inventions came from "failures" he'd experienced while working on other things! So, were his failures actually failures after all? I don't think so!

Sometimes it can be scary to share an idea for an invention. I know I've been nervous to share some of my ideas because I've been afraid of being laughed at, or scared people may think my idea was dumb. What I've learned since I was a little girl is that courage stands up to fear. The author Maya Angelou said: "Courage allows the successful woman to fail and learn powerful lessons from the failure. So that in the end, she didn't fail at all."

And **Psalm 56: 3-4** says:



What if Thomas Edison worried about what his friends would say or if he'd be laughed at? We may still all be sitting in the dark.

**BELIEVE IN YOUR IDEAS, BELIEVE IN WHAT GOD HAS PLANTED IN YOU AND YOU WILL ACHIEVE GREAT THINGS!**



## RECYCLED FLOWERS

**SPRING HAS SPRUNG WITH THESE ADORABLE FLOWERS!** Grab your parents and have fun making these flower decorations — perfect for Easter.

### WHAT'S THE SCIENCE BEHIND THESE FLOWERS?

This flower forming works because of the characteristics of the plastic in the cups and plates. The heat of your oven changes the alignment of the polymer chains within the plastic. That's because in the manufacturing process, a polymer resin is heated, extruded, rolled into flat sheets and then molded. This process aligns the polymers into an orderly pattern, but the heat of the oven returns them to their naturally disordered, clumped state. Gravity and where you place your cuts define how they crumple.



**SUPPLIES:** Recycling #6 cups and plates, flower pots, floral stems, Washi tape, styrofoam balls, pot filler, hot glue, scissors, permanent markers



Preheat the oven to 350 degrees. Start by coloring the plates and cups with the markers and cover them as completely as possible.



Experiment with different patterns, colors and designs.



Now is the time to grab an adult! Carefully cut slits around your cups and plates about halfway down. Plastic pieces may fly off, so be careful!



Have an adult place plastic pieces on a foil covered baking sheet and bake for 2 to 5 minutes. Be sure to turn on your oven vent or open a window because it can be a little stinky!



Watch the pieces very closely and take them out as they start to bubble up. Be careful not to leave them in too long or they will look like these!



Cut the floral stems to your desired length and wrap with Washi tape.



Place a large circle of hot glue on the back of your flowers and attach the floral stem.



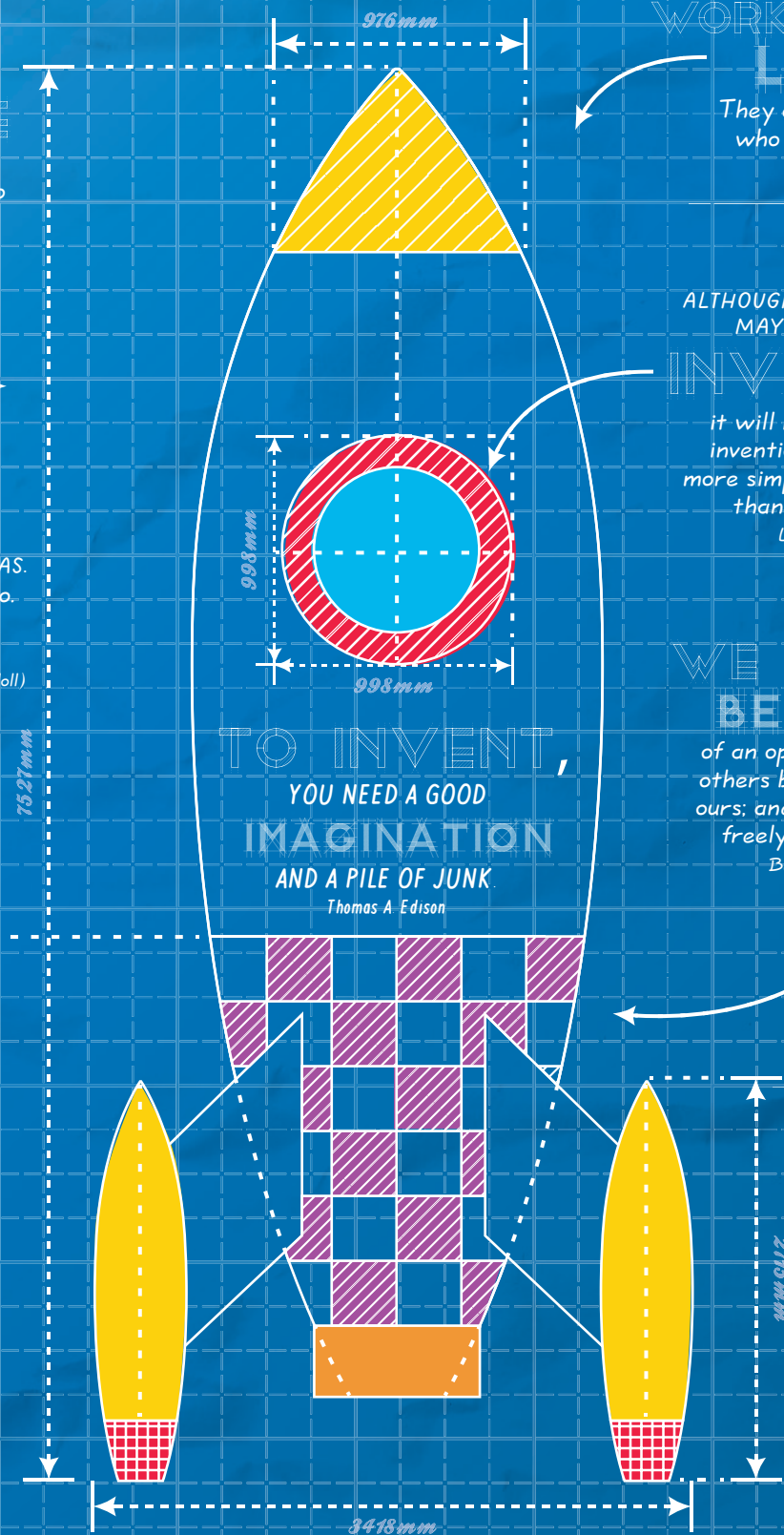
Once dry, poke the floral stem into the styrofoam and cover with filler.



BEFORE YOU  
GO

ONE RULE  
of invention: before you  
can invent it, you have to  
imagine it.  
J. Gunn

DON'T  
DWELL ON  
WHAT HAPPENED,  
NO MATTER HOW BAD IT WAS.  
Find something else to do.  
Find something to do  
to help others.  
Ruth Handler (designer of Barbie doll)



GREAT ARE THE  
WORKS OF THE  
LORD;  
They are studied by all  
who delight in them.  
Psalm 111:2

ALTHOUGH HUMAN INGENUITY  
MAY DEVISE VARIOUS  
INVENTIONS,  
it will never discover any  
inventions more beautiful,  
more simple or more practical  
than those of nature.  
Leonardo DaVinci

WE SHOULD  
BE GLAD  
of an opportunity to serve  
others by any invention of  
ours; and this we should do  
freely and generously.  
Benjamin Franklin

TO INVENT,  
YOU NEED A GOOD  
IMAGINATION  
AND A PILE OF JUNK.  
Thomas A. Edison

SHE LIKED BOOKS MORE  
THAN ANYTHING ELSE,  
and was, in fact,  
always inventing  
stories of beautiful  
things and telling them  
to herself.  
Frances Hodgson Burnett

Who has measured the waters in the hollow of His hand,  
And marked off the heavens by the span,  
And calculated the dust of the earth by the measure,  
And weighed the mountains in a balance  
And the hills in a pair of scales?  
Isaiah 40:12

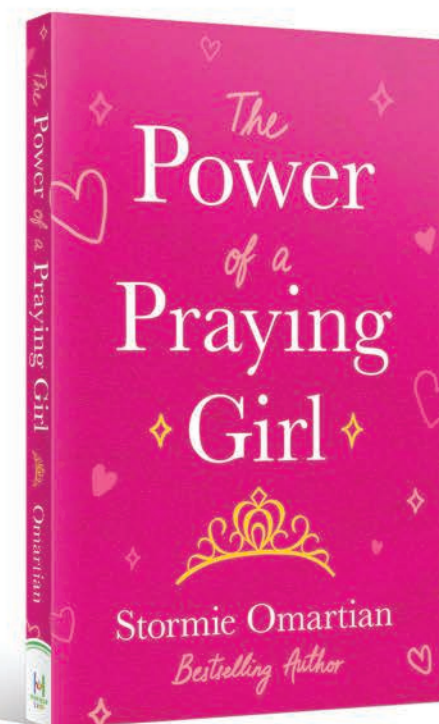
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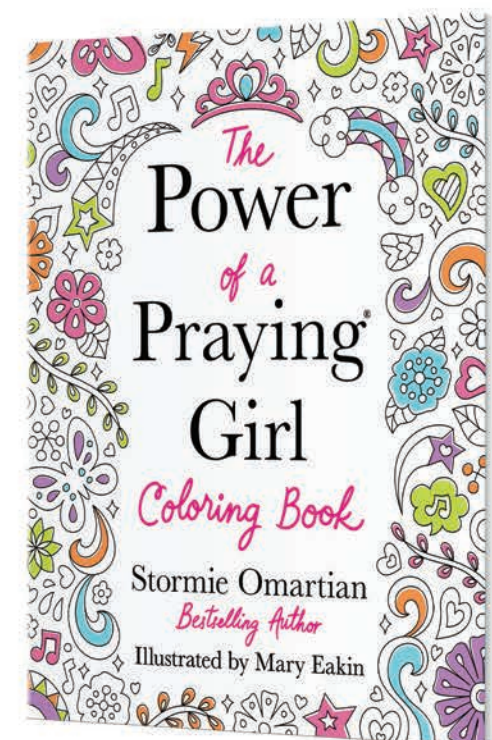
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