

MARCH INTO WOMEN'S HISTORY

TOURNAMENT INSTRUCTIONS

If you are interested in participating in this month's Diversity and Inclusion activity:

1. Fill out the bracket attached

Your bracket should be filled out COMPLETELY

This includes selecting inventions for a Sweet 16, Elite Eight, Final Four, Championship and Winner

2. Turn in your filled out bracket to ROOM 130

You can give it to Laurie, Lauren T, Courtney, or place it on the table next to Courtney's office

DUE DATE: TUESDAY, MARCH 2

3. Participate in the email polls!

We will be sending out email polls so **YOU** can vote for which inventions move on to the next round! So keep an eye on your inbox - all polls will close at the end of the work day they were sent out on

(For example: A poll sent out on Monday morning will close Monday at 4:30PM)

You may participate in the email polls and not submit a bracket, but you **MUST SUBMIT A BRACKET TO BE ELIGIBLE TO WIN*

When each round in the tournament is complete, we will tally the votes and announce which inventions move on

(For example: When round 1 of polls are complete, we will announce the Sweet 16 Inventions)

We will be keeping track of everyone's brackets, and at the end of the tournament we will announce the **bracket winner** and **their prize!**

4. Have fun!

The purpose of this tournament is to not only celebrate women's history and their achievements, but also to have fun while participating in an office-wide activity!

We hope you learn something new!

**Important: If you are having trouble filling out your bracket or have any questions, please see Lauren T or Courtney!*

**Note: All inventions are listed at the end of this document with their corresponding bracket number. When each email poll goes out, you will see the name and description of the invention along with a photo and the name of the woman who invented it.*

MARCH INTO WOMEN'S HISTORY

BRACKET CATEGORY: INVENTIONS

1. Space Station Batteries

2. Geobond

3. Stem Cell Isolation

4. Airplane Muffler

5. Flat Bottomed Paper Bag

6. Aquarium

7. Circular Saw

8. Kevlar

9. Ice Cream Maker

10. Life Raft

11. Laser Cataract Surgery

12. Space Rocket Propulsion System

13. Blissymbol Printer

14. Medical Syringe

15. Submarine Lamp & Telescope

16. Fire Escape

SWEET SIXTEEN

ELITE EIGHT

FINAL FOUR

CHAMPIONSHIP

WINNER

17. Wireless Transmission Technology

18. Home Security System

19. Computer Algorithm

20. Windshield Wiper

21. Disposable Diaper

22. Dishwasher

23. Liquid Paper

24. Coffee Filter

25. Word Processor

26. Car Heater

27. Electric Hot Water Heater

28. Central Heating

29. Retractable Dog Leash

30. The First Monopoly Game

31. Electric Refrigerator

32. Call-center System, Caller ID and Call-Waiting

SWEET SIXTEEN

ELITE EIGHT

FINAL FOUR

1. Space Station Batteries

Inventor: *Olga Gonzalez-Sanabria*

The International Space Station relies on solar power, but for a third of its rotation, the earth blocks the sun's rays. Gonzalez-Sanabria's long-life nickel hydrogen batteries keep the International Space Station powered up during that dark portion of its rotation.

2. Geobond

Inventor: *Patricia Billings*

In 1997 she created Geobond, a groundbreaking building material that is practically indestructible! It is often used as an alternative to Asbestos.

3. Stem Cell Isolation

Inventor: *Ann Tsukamoto*

A vital breakthrough in cancer research, Tsukamoto's co-patented process of isolating human stem cells found in bone marrow has saved hundreds of thousands of lives.

4. Airplane Muffler

Inventor: *El Dorado Jones*

Nicknamed "Iron Woman," El Dorado Jones owned her own metalworking factory where she employed only women over 40. Though she never received the funding to manufacture it, she invented the airplane engine muffler.

5. Flat Bottomed Paper Bag

Inventor: *Margaret Knight*

After having her invention stolen by a man who claimed that there was no way a woman could have invented such a thing, Knight finally received a patent in 1871 for a machine that could produce square-bottomed paper bags.

6. Aquarium

Inventor: *Jeanne Villepreux-Power*

A French naturalist, Villepreux-Power was trying to prove that the paper nautilus does not take discarded shells from other organisms, but rather grows its own shell. To observe the creature for an extended period of time and to study marine life, she invented a glass aquarium.

7. Circular Saw

Inventor: *Tabitha Babbitt*

While living in a Shaker community and working as a weaver, Babbitt watched people struggling to cut wood with a pit saw, which required two users and only cut in one direction. Determined to help, she attached a circular blade to her spinning wheel and invented the much more efficient circular saw.

8. Kevlar

Inventor By: *Stephanie Kwolek*

While searching for strong but lightweight plastics to use in car tires, DuPont researcher Stephanie Kwolek discovered what would become known as Kevlar. This revolutionary fiber has saved countless lives in the form of bullet-proof vests, and is also used in numerous applications, such as bridge cables, canoes, and frying pans.

9. Ice Cream Maker

Inventor: *Nancy Johnson*

Johnson had her priorities straight before freezers were even invented. She created a double-cylinder hand-crank ice cream machine. It could create two flavors that are frozen at the same time but separately.

10. Life Raft

Inventor: *Maria Beasley*

Though Beasley had already made a fortune on a barrel-hooping machine patent, this serial inventor went on to design an improved life raft with guard rails that was fireproof and foldable for easy storage. Her life rafts were used on the Titanic and saved over 700 lives.

11. Laser Cataract Surgery

Inventor: *Patricia Bath*

Bath's patented Laserphaco Probe allows doctors to dissolve cataracts quickly and painlessly before applying new lenses to patients' eyes. This technology is used worldwide to prevent blindness due to cataracts.

12. Space Rocket Propulsion System

Inventor: *Yvonne Brill*

Brill's groundbreaking invention, the hydrazine resistojet, streamlined various rocket propulsion systems, which all required different types of fuel and added prohibitive weight, into a lighter system with a single fuel source. Monopropellant thrusters are now standard, and are why we have self-propelling satellites.

13. Blissymbol Printer

Inventor: *Rachel Zimmerman*

At only 12 years old, Zimmerman invented software that allows people with speech disabilities to communicate non-verbally by using symbols on a touchpad that are then translated to written language.

14. Medical Syringe

Inventor: *Letitia Geer*

For centuries before Greer's invention of a one-handed syringe, medical professionals had been using syringes that required both hands to administer injections.

15. Submarine Lamp & Telescope

Inventor: *Sarah Mather*

Mather's 1845 patent was for her "submarine telescope," an apparatus with a lamp that was attached to a tube, which was then sunk under water. It was used not by underwater vessels, but by people above water attempting to see into the depths to investigate wrecks, damaged ship hulls, and enemy activity during the Civil War.

16. Fire Escape

Inventor: *Anna Connelly*

Tenement fires were much more deadly before Connelly invented an external metal staircase, the very first fire escape. In addition to saving lives, her invention also precipitated one of the first New York City building codes, which required residential buildings to have a secondary means of escape for emergencies.

17. Wireless Transmission Technology

Inventor: Hedy Lamarr

During World War II, Lamarr, who also happened to be a movie star, created a frequency-hopping communication system that could guide torpedos without being detected. Her groundbreaking work paved the way for the modern invention of WiFi, GPS, and bluetooth.

18. Home Security System

Inventor: Marie Van Brittan Brown

With New York City police being notoriously slow to respond to calls in her neighborhood, Brown took matters into her own hands and created a home security system with closed-circuit television.

19. Computer Algorithm

Inventor: Ada Lovelace

While translating the notes of mathematics professor Charles Babbage for his theoretical invention the analytical engine, Lovelace added her own notes, tripling the original text, and is credited with writing the world's first computer algorithm.

20. Windshield Wiper

Inventor: Mary Anderson

After receiving a patent in 1903, Anderson tried to sell her new windshield cleaning device to a manufacturer, who refused, stating that her invention lacked practical value. Her windshield wipers failed to take off before her patent expired and it was 10 years before a similar device became standard on cars.

21. Disposable Diaper

Inventor: Marion Donovan

First inventing a leak-proof diaper covering, then a fully disposable diaper, Donovan was intent on helping as many people as possible with her ingenuity. While it's not surprising that her inventions were completely ignored as "unnecessary and impractical" by the male manufacturers she pitched them to, Donovan took matters into her own hands and sold them straight to Saks Fifth Avenue.

Information about inventions taken from [usatoday.com](https://www.usatoday.com/story/money/2019/03/16/inventions-you-have-women-inventors-thank-these-50-things/39158677/), Who invented the dishwasher, windshield wiper, caller ID? Women created these 50 inventions. Josie Green. <https://www.usatoday.com/story/money/2019/03/16/inventions-you-have-women-inventors-thank-these-50-things/39158677/>

22. Dishwasher

Inventor: Josephine Cochran

Though other prototypes existed, it took a woman's common sense to create a dishwasher that actually cleaned the dishes. Cochran's design was the first that used water pressure rather than scrubbers to remove debris.

23. Liquid Paper

Inventor: Bette Nesmith Graham

This invention turned Graham from a secretary to a millionaire. First marketed as "Mistake-Out," Graham's home-made typewriter correction fluid was an instant hit among her fellow secretaries. After further experimentation, she perfected her recipe and Liquid Paper was born.

24. Coffee Filter

Inventor: Melitta Bentz

Pour-over coffee fans may be surprised to learn that the company Melitta isn't named after an Italian coffee maker. It's actually named after Melitta Bentz, a German entrepreneur who invented an easy, minimalist way to make coffee by placing it in a filter and pouring water over it.

25. Word Processor

Inventor: Evelyn Berezin

In addition to creating the first computerized airline booking system, Berezin created the world's first word processor. Realizing that because of her gender she wouldn't be able to move up in the industry, she also founded her own company, Redactron, to get her inventions on the market.

26. Car Heater

Inventor: Margaret A. Wilcox

Taking advantage of the heat already generated as a byproduct of combustion, Wilcox invented a way to heat cars by channeling air over the engine and into the cab.

27. Electric Hot Water Heater

Inventor: Ida Forbes

Not much is known about Ida Forbes besides that she patented the first electric hot water heater in a time when most hot water heaters ran on gas.

28. Central Heating

Inventor: Alice Parker

Parker's revolutionary design for central heating, though never utilized, was the first that used natural gas, rather than wood, to heat a home.

29. Retractable Dog Leash

Inventor: Mary A. Delaney

In Delaney's words, her invention of a leash you could shorten at a moment's notice was to prevent dogs from "running on the wrong side of lamp posts or pedestrians, thus causing much annoyance to the owner." Thank you, Mary.

30. The First Monopoly Game

Inventor: Elizabeth Magie

Originally designed to demonstrate the evils of unchecked capitalism, Magie's "The Landlord's Game," was patented in 1904, 30 years before a man patented a very similar game called Monopoly and sold it to Parker Brothers.

31. Electric Refrigerator

Inventor: Florence Parpart

In a time when people were still using ice-boxes, Parpart patented an electric refrigerator that she successfully marketed and improved upon for years.

32. Call-center System, Caller ID and Call-Waiting

Call-center System Inventor: Erna Schneider Hoover

Before Hoover's invention of a telephone call traffic system, phone circuit equipment at Bell Labs – where she was a researcher – was constantly overloaded. Her computerized solution monitored call volumes and adjusted acceptance rates accordingly, so as not to overload circuits.

Caller ID and Call-Waiting Inventor: Shirley Ann Jackson

Shirley Ann Jackson was an award-winning theoretical physicist. Her contributions to the field of telecommunications led to the invention of numerous technologies, including caller ID and call-waiting, as well as solar cells and fiber optic cables.