MOVING FORWARD

As you continue to dream about your future, here are some next steps you can take today.

- Continue to take STEM-related classes. Study hard and challenge yourself to excel in science, math and other electives as you go through middle school and high school.
- Stay curious. There are so many academic and career possibilities that await in STEM. If something interests you, push yourself to do your research and learn more about it.
- Find a mentor. Talk to a teacher, parent or family member about your goals, and see how they can help you find new ways to explore your passions.
- Believe in yourself. Dream big and stay inspired.



ANSWER KEY

Word search:
O B I V B V E B D E V E L O P E B Z F I P O I I O U G U B Z B G Q Y A T F F O P F F W O B F S U N N P K S V R W K P O H O B E P M P V I Y M I H T R C F J Q D A P T C J H E O E N O E V P Z H Y I Q S R G G N N H Y D K T E D Y U X I M T G C M E C T U Z O S I O E S A F K T M H S I A O P D R M A I I C B R S B D E I B A E C G O J S W L Z H C A B I A K C K L L N I R A T E K A E M Z A L N N N T A M P T S A K Q C K D L Y U J L E T A A L R B I T P Y H X Q U B P I H V T N O R L O X S N H T I G X M A I E I O N H G E I Y E T T E P S Y C H O L O G I S T E I A S I E B B U R S X I O V E T V F W R N Z N T G N N E R B Z E T F X D U L Q N A E P W O K R A Y N O M Y P P N O T Y O P P E S T T O E N T A I H Y G I E N I S T U I R N G G U F A N E S T H E S I O L O G I S T M X C I V I L E N G I N E E B Z T D N T

Word scramble

ENERGY
CODE
NNOVATION
DEVELOPMENT
CREATIVITY
OGIC
RESEARCH
EXPERIMENT
BUSINESS

6 5 9 3 1 4 2 8 7 765 2 3 9 8 4 4 8 9 3 2 7 5 1 2 3 4 6 5 9 7 94 7 6 3 8 1 5 2 7 6 5 9 3 8 4

2 5 8

7 6 5 4 2

9 4 8 7 6

6

8

2

1

4

9 7 6

1 8 9 3

3 1 2 5

Pop quiz:

1. D 2. B

3 1

Sudoku

3. D 4. C

5. A

Why STEM?

It's always fun to dream about the future, and here are five reasons why you might want to keep STEM in mind as you look ahead.

- You enjoy science, technology, engineering and/or math.
- money.
- science, technology, engineering and math will always be valuable.



• A lot of the skills you learn are transferable and can be used across different fields.

• More job opportunities are available, and you have the potential to earn lots of

• Even as things change and our world continues to evolve, the basic fundamentals of

• You can play a role in groundbreaking innovations that help our society.



The U.S. Bureau of Labor Statistics projects that

STEM jobs will grow

by more than 10% by

2030.

Median salary in 2020,

according to the

U.S. Bureau of

Labor Statistics:

STEM jobs: \$89,780 Non-STEM jobs: \$40,020

According to Pew

Research Center.

of workers in the life

sciences (biological or

agricultural sciences), up

from 34% in 1990.

women comprise 48%

WORD SEARCH

There are many different job opportunities available in STEM industries, and we've hidden the ones listed below in this grid. Locate the provided words, which can be found horizontally, vertically or diagonally.

O B I V B W E B D E V E L O P E R Z F L POIIOUGUBZBGOYATFFOP F F W O B F S U N N P K S V R W K P O H OBEPMPVIYMIHTRCFIODA P T C | H E O E N O E V P Z H Y I Q S R G G N N H Y D K T E D Y U X I M T G C M ECTUZOSIQESAFKTMHSIA O P D R M A I I C B R S B D E I B A E C GOJSWLZHCABIAKCKLLNI RATEKAEMZALNNNTAMPTS AKQCKDLYU|LETAALRBIT P Y H X O U B P I H V T N O R L O X S N HTIGXMAIEIONHGEIYFTT EPSYCHOLOGISTEIIASIE R B U R S X I O V E T V F W R N Z N T G N N E R B Z E T F X D U L Q N A E P W O K R A Y N O M Y P P N O T Y O P P E S T TDENTALHYGIENISTUIRN GGUFANESTHESIOLOGIST MXCIVILENGINEERZTDNT

Anesthesiologist Architect **Biomedical engineer** Business analyst Civil engineer

Dental hygienist Food scientist Geographer Nurse

Physical therapist Pilot Psychologist Veterinarian Web developer

DISCOVER DIFFERENT PATHS

Certain careers might come to mind when you think about STEM, but the possibilities are endless. We've listed some jobs below that you might not be familiar with yet. Take some time to research each role and list some of its responsibilities.

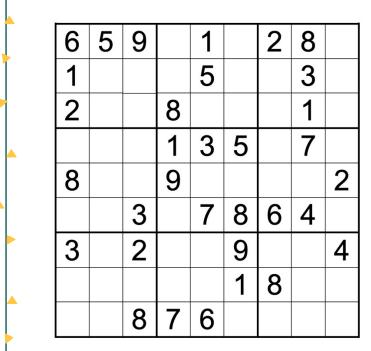
Pharmacist

Actuary	Nanosystems engineer
Crystallographer	Orthotist
Data scientist	Quantitative analyst
Epidemiologist	Security analyst
Forensic scientist	Speech-language pathologist
Genetic counselor	User experience designer

SUDOKU

Sudoku is a Japanese puzzle that uses numbers to test logic and reasoning — skills that are key to STEM fields. To solve the puzzle below, every row across, every column up and down, and every three-bythree block of squares must contain 1 through 9 without repeating any numbers.

Hint: Where do you think 2 should be in the center block of squares?





MAKING HISTORY

Take a peek at some of the ways that WSU has contributed to many milestones in STEM.

- In the early 1940s, Wayne State alumnus Abraham Nemeth set to work inventing a customized Braille system for math and science notations. The Nemeth Code was so effective that by the 1950s, it was included in math textbooks to help blind scholars pursue their studies.
- WSU alumnus William O'Neill, M.D. the nation's first surgeon to perform an aortic valve replacement through a catheter — pioneered the use of angioplasty to treat heart attacks in the 1980s.
- Wayne State University's College of Nursing opened its doors in 1945, becoming the first college in the country to offer a bachelor of science in nursing.
- In the early years of auto safety research, WSU Professor Lawrence Patrick volunteered himself for crash tests, subjecting his body to impacts at speeds of up to 45 mph to gather living human data. Harold Mertz, an engineering student that Patrick hired to oversee the tests, used this data for his thesis and was later hired by GM, going on to invent the world's first crash test dummy — which is still used today.

POP QUIZ

- **1.** In 1868, Wayne State was founded as:
 - A. A law school
 - B. An engineering college
 - D. A medical college

- Detroiter and major donor:
 - A. Marshall Mathers
 - B. Mike Ilitch
- C. Diana Ross
- D. Henry Ford

3. WSU is home to:

- D. All of the above

- building is known as:
 - A. Big Wayne
 - B. The Tick-Tock-Clock Tower
 - C. Old Main

D. The Warrior Zone

more than:

- A. 150 years
- B. 3,000 years C. 500 years
- D. 75 years

WORD SCRAMBLE

Rearrange the letters to spell the word correctly.

NGREYE	
ECDO	
INONONVIAT	
TMEPONDEELV	
EITCAYTVRI	
CGILO	
HEEASRRC	
XPTEERMENI	
SBEUSSIN	
502035IN	

Put your knowledge of Wayne State University to the test.

C. A software think tank

2. Our business school is named in honor of this entrepreneurial

A. The world's first successful open-heart surgery B. The discovery of AZT for the treatment of AIDS C. The country's first electric-drive vehicle program

4. Built in 1895, Wayne State's oldest and most recognizable campus

5. Wayne State University has been part of the fabric of Detroit for

According to the Michigan STEM Partnership, 30% of jobs in the metro Detroit area are in research and development and STEMintensive industries.



Pew Research Center reports that STEM employment grew 79% — from 9.7 million to 17.3 million — between 1990 and 2018.



The U.S. Census Bureau reports that 40% of college-educated STEM workers also have a graduate degree.