Women History Month

MARGARET HAMILTON

Reading Comprehension

NO-PREP

COMPREHENSION QUESTIONS

6. What was Margaret Hamilton awarded in 2016 for her contributions to the Apollo program?

... Freedom
... ice Medal

...milton's software innovations become a model f...

...at recognition did ...

...nt success of the A...

...bout Margaret Hamilton...

...pollo missions.
...ing

COMPREHENSION QUESTIONS

NAME:_____   DATE:_____

DIRECTIONS: CHOOSE THE CORRECT ANSWER.

1. When was Margaret Hamilton ...?
   a) August 17, 1936
   b) September 17, 1946
   c) August 17, 1946
   d) September 17, 1936

2. Where did Margaret H...
   a) NASA
   b) Microsoft
   c) MIT Instrumentation...
   d) IBM

3. What was Margaret H...
   a) Astronaut
   b) Software engineer
   c) Spacecraft pilot
   d) Navigation specialist

4. What is the name of t...
   Margaret Hamilton?
   a) Apollo Control Comp...
   b) Lunar Module Comp...
   c) Apollo Guidance Com...
   d) Spacecraft Navigati...

5. What concept emerged...
   a) Space Engineering
   b) Hardware Engineering
   c) Software Engineering
   d) Guidance Engineering

MARGARET HAMILTON

In our journey through Women's History Month, we spotlight Margaret Hamilton, a pioneering software engineer whose contributions to computer science played a pivotal role in the success of NASA's Apollo missions to the moon. Born on August 17, 1936, in Paoli, Indiana, Hamilton's innovative work in software engineering laid the foundation for modern computing.

In the 1960s, Hamilton joined MIT Instrumentation Laboratory, which later became Draper Laboratory, to work on the Apollo space program. Her team was responsible for developing the software for the Apollo Guidance Computer, the onboard computer that controlled the spacecraft's guidance and navigation systems.

Hamilton's groundbreaking concept of "software engineering" emerged from her work on the Apollo missions. She introduced rigorous development practices, including error detection and recovery mechanisms, that were essential to the reliability and success of the Apollo 11 moon landing in 1969. Her software innovations became a model for future missions and laid the groundwork for the software engineering discipline.

Despite the male-dominated nature of the field during that era, Hamilton's leadership and expertise earned her recognition as one of the most influential software engineers ... Congress was awar...
Medal of Freedom b... for h...
contributions to the ...

As we celebrate Wo... ... compute... ...
young minds to explo... ...
that innovation know... gender ... that anyone car... shape the future of technology.

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Hamilton's groundbreaking concept of "software engineering" emerged from her work on the Apollo missions. She introduced rigorous development practices, including error detection and recovery mechanisms, that were essential for the reliability and success of the Apollo II moon landing in 1969. Her software innovations became a model for future missions and laid the groundwork for the software engineering discipline.

Despite the male-dominated nature of the field during that era, Hamilton's leadership and expertise earned her recognition as one of the most influential software engineers in history. In 2016, she was awarded the Presidential Medal of Freedom by President Barack Obama for her outstanding contributions to the Apollo program.

As we celebrate Women's History Month, Margaret Hamilton's legacy inspires young minds to explore the vast frontier of computer science, reminding them that innovation knows no gender and that anyone can shape the future of technology.

COMPREHENSION QUESTIONS

6. What was Margaret Hamilton awarded in 2016 for her contributions to the Apollo program?
a) Nobel Prize in Physics
b) Turing Award
c) Presidential Medal of Freedom
d) NASA Exceptional Service Medal

7. What did Margaret Hamilton's software innovations become a model for?
a) Military applications

...NSION QUESTIONS

DATE:_____

...THE CORRECT ANSWER.

...Hamilton born?

...Hamilton work in the 1960s?

...tion Laboratory

...Hamilton's role in the Apollo space program?

...est

4. What is the name of the computer controlled by the software developed by Margaret Hamilton?
a) Apollo Control Computer
b) Lunar Module Computer
c) Apollo Guidance Computer
d) Spacecraft Navigation Computer

5. What concept emerged from Margaret Hamilton's work on the Apollo missions?
a) Space Engineering
b) Hardware Engineering
c) Software Engineering
d) Guidance Engineering

ANSWERS

1. a) August 17, 1936
2. b) MIT Instrumentation Laboratory
3. b) Software engineer
4. c) Apollo Guidance Computer
5. c) Software Engineering
6. c) Presidential Medal of Freedom
7. b) Future space missions
8. c) Presidential Medal of Freedom
9. c) Apollo II moon landing
10. Her contributions were pivotal in the suc...

READING
COMPREHENSION

CLOSE READING GRAPHIC ORGNIZERS INCLUDED

GROUP ACTIVITY

TITLE OF TEXT
_____

WHAT I THINK

ANNOTATING MARKS

☑ Circle powerful words or phrases.

☑ Underline words or phrases you do not understand.

☑ Place a qu____
that makes

☑ Write an e____
something

SUMMARIZE

Write a summary of the passage. The main idea should be stated in your first sentence. Then use the four details to write four supporting sentences. Close your summary by restating the main idea.

NAME:_____

MAIN IDEA

TITLE OF TEXT
_____

NAME:_____

MAIN IDEA

SUPPORING DETAILS   SUPPORING DETAILS

VOCABULARY GRAPHIC ORGNIZER

TITLE OF TEXT

NAME:_____

UNKNOWN WORD   UNKNOWN WORD   UNKNOWN WORD

CLUES FROM TEXT & MEANING   CLUES FROM TEXT & MEANING   CLUES FROM TEXT & MEANING