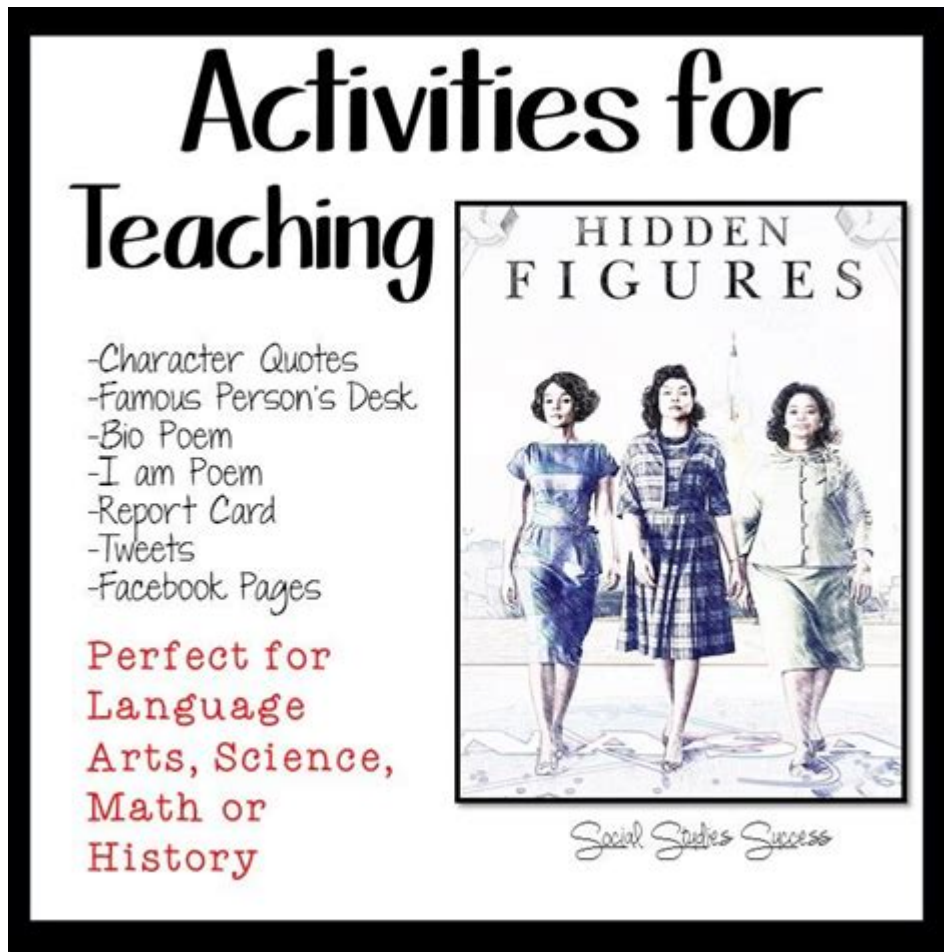


# Hidden Figures Worksheet



**Hidden figures worksheet** is an educational tool designed to help students and learners of all ages deepen their understanding of the pivotal roles played by women in the field of mathematics and science, particularly during the mid-20th century. Inspired by the true story depicted in the critically acclaimed film "Hidden Figures," this worksheet serves as a resource to explore the contributions of African American female mathematicians at NASA who were instrumental in the success of the United States' space program. In this article, we will delve into what a hidden figures worksheet typically includes, its educational benefits, and how it can be effectively utilized in classrooms or for self-study.

## What is a Hidden Figures Worksheet?

A hidden figures worksheet is a structured educational document that typically includes a variety of activities, questions, and prompts focused on the lives and contributions of key figures such as Katherine Johnson, Dorothy Vaughan, and Mary Jackson. The worksheet may contain sections that encourage critical thinking, research skills, and analytical abilities.

# Components of a Hidden Figures Worksheet

The contents of a hidden figures worksheet can vary, but it often includes the following components:

- **Biographical Information:** Short descriptions of the lives of women featured in "Hidden Figures," highlighting their achievements and challenges.
- **Key Contributions:** A section dedicated to the specific contributions made by these women to NASA and the broader field of mathematics.
- **Discussion Questions:** Open-ended questions that prompt students to think critically about the themes of the film and the historical context.
- **Vocabulary Lists:** Relevant terminology related to mathematics, science, and civil rights that students should understand.
- **Activities:** Engaging tasks such as timeline creation, character analysis, and problem-solving exercises related to the mathematical concepts used by the featured women.

## Educational Benefits of Using a Hidden Figures Worksheet

Incorporating a hidden figures worksheet into the curriculum offers several educational benefits:

### 1. Promoting Diversity in STEM

One of the most significant benefits of using a hidden figures worksheet is its ability to highlight the contributions of women and minorities in STEM (Science, Technology, Engineering, and Mathematics) fields. By learning about these figures, students can appreciate the diversity that exists in scientific achievements and understand that contributions come from all backgrounds.

### 2. Enhancing Critical Thinking Skills

The discussion questions and activities included in the worksheet encourage students to think critically about historical events and their implications.

This helps students develop analytical skills and fosters a deeper understanding of the material.

### **3. Fostering Inspiration and Aspirational Role Models**

Seeing the achievements of women like Katherine Johnson can inspire young students, especially girls, to pursue careers in STEM fields. The hidden figures worksheet serves as a tool to motivate students by showing them real-life role models who have overcome obstacles to achieve success.

### **4. Encouraging Collaborative Learning**

Classroom activities based on the hidden figures worksheet can promote teamwork and collaboration among students. Working in groups to answer questions or complete projects encourages communication and the sharing of diverse perspectives.

## **How to Use a Hidden Figures Worksheet Effectively**

To maximize the educational impact of a hidden figures worksheet, educators and students can follow these guidelines:

### **1. Introduce the Historical Context**

Before diving into the worksheet, provide students with a brief overview of the historical context of the Civil Rights Movement and the Space Race. This background will help them understand the significance of the contributions made by the women featured in the worksheet.

### **2. Watch the Film or Read the Book**

If possible, have students watch the film "Hidden Figures" or read the book by Margot Lee Shetterly. This will provide them with a deeper understanding of the characters and the challenges they faced, enriching their experience when working on the worksheet.

### **3. Conduct a Group Discussion**

After completing the worksheet, hold a group discussion to allow students to share their thoughts and insights. This collaborative approach can enhance understanding and retention of the material.

### **4. Incorporate Real-World Applications**

Link the mathematical concepts discussed in the worksheet to real-world applications. For example, explore how the calculations made by Katherine Johnson were crucial for mission planning in space travel, reinforcing the relevance of mathematics in everyday life.

### **5. Assign a Research Project**

Encourage students to choose a lesser-known figure in STEM history and create a research project based on their findings. This will not only deepen their understanding of the topic but also allow them to explore the broader context of diversity in STEM.

## **Conclusion**

In conclusion, a hidden figures worksheet is an invaluable educational resource that can facilitate learning about the remarkable contributions of African American women in mathematics and science. By uncovering their stories and achievements, students can gain a greater appreciation for diversity in STEM fields while developing critical thinking skills and fostering inspiration to pursue their own aspirations. Whether used in the classroom or for independent study, this worksheet offers a pathway to understanding the importance of representation and resilience in the pursuit of knowledge and innovation.

## **Frequently Asked Questions**

### **What is the purpose of a 'Hidden Figures' worksheet?**

A 'Hidden Figures' worksheet is designed to help students explore and analyze the contributions of African American women mathematicians to the space race, as depicted in the film 'Hidden Figures'. It often includes activities related to math, history, and social justice.

## **What types of activities can be found in a 'Hidden Figures' worksheet?**

Activities may include math problems inspired by the calculations made by the figures in the film, discussion questions about their impact, research assignments on the characters, and creative projects that encourage critical thinking about race and gender in STEM.

## **How can teachers integrate a 'Hidden Figures' worksheet into their curriculum?**

Teachers can integrate the worksheet into lessons on American history, mathematics, or STEM education by using it as a supplementary resource after watching the film or studying related topics, encouraging discussions on diversity and representation in technical fields.

## **What age group is a 'Hidden Figures' worksheet suitable for?**

A 'Hidden Figures' worksheet is generally suitable for middle school and high school students, but it can also be adapted for younger students or even college-level courses, depending on the complexity of the activities and discussions.

## **Are there any online resources available for 'Hidden Figures' worksheets?**

Yes, various educational websites offer free downloadable worksheets and lesson plans related to 'Hidden Figures'. These resources often include guided questions, activities, and multimedia links to enhance the learning experience.

## **What skills can students develop by completing a 'Hidden Figures' worksheet?**

Students can develop critical thinking, problem-solving, and analytical skills, as well as a deeper understanding of the historical context of the civil rights movement and the importance of diversity in STEM fields.

## **Can a 'Hidden Figures' worksheet be used for group projects?**

Absolutely! A 'Hidden Figures' worksheet can facilitate group projects where students collaborate to research the figures featured in the film, present their findings, and engage in discussions about the relevance of their contributions to modern society.

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