

# Hidden Figures Questions Worksheet

## Hidden Figures Movie Quiz

Questions to be used with the 2016 movie, *Hidden Figures*, directed by Theodore Melfi.



1. In the opening scene, Katherine's parents are entering her into a collegiate school in what state?
  - a. Mississippi
  - b. West Virginia
  - c. Oklahoma
  - d. Alabama
2. At the beginning of the movie the ladies' car breaks down, how do they make it to work at NASA?
  - a. They take a bus.
  - b. They ride in a police car.
  - c. They fix the car themselves and are escorted by a policeman
  - d. They hitchhike.
3. In the beginning of the movie, Katherine, Mary, and Dorothy work for NASA as
  - a. Teachers
  - b. Secretaries
  - c. Researchers
  - d. Computers



HIDDEN FIGURES QUESTIONS WORKSHEET IS AN ESSENTIAL EDUCATIONAL TOOL DESIGNED TO DEEPEN STUDENTS' UNDERSTANDING OF THE THEMES, CHARACTERS, AND HISTORICAL CONTEXT PRESENTED IN THE FILM "HIDDEN FIGURES." THIS FILM, WHICH HIGHLIGHTS THE CRUCIAL CONTRIBUTIONS OF AFRICAN AMERICAN WOMEN MATHEMATICIANS AT NASA DURING THE SPACE RACE, SERVES AS AN IMPORTANT NARRATIVE THAT COMBINES ELEMENTS OF SCIENCE, HISTORY, AND SOCIAL JUSTICE. THE WORKSHEET SERVES MULTIPLE PURPOSES: IT GUIDES CLASSROOM DISCUSSIONS, ENCOURAGES CRITICAL THINKING, AND ENHANCES COMPREHENSION OF THE FILM'S IMPACT ON BOTH INDIVIDUAL LIVES AND LARGER SOCIETAL ISSUES.

## OVERVIEW OF THE FILM

"HIDDEN FIGURES," DIRECTED BY THEODORE MELFI, TELLS THE TRUE STORY OF THREE AFRICAN AMERICAN WOMEN—KATHERINE JOHNSON, DOROTHY VAUGHAN, AND MARY JACKSON—who PLAYED PIVOTAL ROLES IN NASA DURING THE EARLY 1960S. THE FILM SHOWCASES THEIR STRUGGLES AGAINST RACIAL AND GENDER DISCRIMINATION WHILE SIMULTANEOUSLY CONTRIBUTING TO ONE OF HUMANITY'S MOST SIGNIFICANT ACHIEVEMENTS: SENDING ASTRONAUTS INTO SPACE.

## KEY THEMES

1. RACE AND GENDER EQUALITY: THE FILM ILLUSTRATES THE INTERSECTIONALITY OF RACE AND GENDER, PORTRAYING THE SYSTEMIC OBSTACLES THAT THE MAIN CHARACTERS FACED IN A PREDOMINANTLY WHITE AND MALE ENVIRONMENT.
2. EMPOWERMENT AND RESILIENCE: THE PROTAGONISTS EXHIBIT REMARKABLE STRENGTH AND PERSEVERANCE, DEMONSTRATING HOW DETERMINATION CAN LEAD TO GROUNDBREAKING ACHIEVEMENTS.
3. COLLABORATION AND TEAMWORK: THE FILM EMPHASIZES THE IMPORTANCE OF COLLABORATION, SHOWCASING HOW DIVERSE PERSPECTIVES CAN LEAD TO INNOVATIVE SOLUTIONS.
4. EDUCATION AND KNOWLEDGE: THE CHARACTERS' ACADEMIC PROWESS AND COMMITMENT TO LEARNING HIGHLIGHT THE VALUE OF EDUCATION AND INTELLECTUAL CONTRIBUTION.

## CHARACTERS AND THEIR CONTRIBUTIONS

- KATHERINE JOHNSON: A BRILLIANT MATHEMATICIAN WHOSE CALCULATIONS WERE CRITICAL TO THE SUCCESS OF JOHN GLENN'S ORBITAL FLIGHT. HER STORY IS ONE OF OVERCOMING BARRIERS THROUGH INTELLIGENCE AND DETERMINATION.
- DOROTHY VAUGHAN: A SKILLED MATHEMATICIAN AND THE FIRST AFRICAN AMERICAN WOMAN TO SUPERVISE A GROUP AT NASA, SHE RECOGNIZED THE IMPORTANCE OF COMPUTER PROGRAMMING AND TAUGHT HERSELF AND HER COLLEAGUES HOW TO USE THE NEW TECHNOLOGY.
- MARY JACKSON: AN ENGINEER WHO FOUGHT FOR HER RIGHT TO ATTEND AN ALL-WHITE SCHOOL TO FURTHER HER EDUCATION. HER JOURNEY EMPHASIZES THE IMPORTANCE OF BREAKING BARRIERS IN MALE-DOMINATED FIELDS.

## PURPOSE OF THE HIDDEN FIGURES QUESTIONS WORKSHEET

THE HIDDEN FIGURES QUESTIONS WORKSHEET SERVES MULTIPLE EDUCATIONAL PURPOSES:

1. ENCOURAGING CRITICAL THINKING: BY PROMPTING STUDENTS TO ANALYZE THE FILM'S THEMES AND CHARACTER MOTIVATIONS, THE WORKSHEET ENCOURAGES DEEPER ENGAGEMENT WITH THE MATERIAL.
2. GUIDING DISCUSSIONS: THE QUESTIONS CAN FACILITATE CLASSROOM DISCUSSIONS, ALLOWING STUDENTS TO SHARE THEIR PERSPECTIVES AND INSIGHTS.
3. ASSESSING UNDERSTANDING: EDUCATORS CAN USE THE WORKSHEET TO ASSESS STUDENTS' COMPREHENSION OF THE FILM AND ITS HISTORICAL CONTEXT.
4. CONNECTING HISTORY TO PRESENT-DAY ISSUES: THE WORKSHEET CAN HELP STUDENTS DRAW PARALLELS BETWEEN THE STRUGGLES FACED BY THE CHARACTERS AND CONTEMPORARY ISSUES RELATED TO RACE, GENDER, AND EQUALITY.

## COMPONENTS OF THE HIDDEN FIGURES QUESTIONS WORKSHEET

A WELL-STRUCTURED HIDDEN FIGURES QUESTIONS WORKSHEET TYPICALLY INCLUDES VARIOUS TYPES OF QUESTIONS AND ACTIVITIES DESIGNED TO ENGAGE STUDENTS. HERE ARE SOME KEY COMPONENTS:

### 1. COMPREHENSION QUESTIONS

THESE QUESTIONS TEST STUDENTS' UNDERSTANDING OF THE FILM'S PLOT AND CHARACTERS. EXAMPLES INCLUDE:

- WHAT ROLE DID KATHERINE JOHNSON PLAY IN JOHN GLENN'S MISSION?
- HOW DID DOROTHY VAUGHAN ADAPT TO THE CHANGES BROUGHT BY COMPUTERS?
- DESCRIBE THE CHALLENGES MARY JACKSON FACED IN PURSUING HER ENGINEERING CAREER.

### 2. ANALYTICAL QUESTIONS

THESE QUESTIONS ENCOURAGE STUDENTS TO THINK CRITICALLY ABOUT THE FILM'S THEMES AND MESSAGES. EXAMPLES INCLUDE:

- HOW DOES THE FILM PORTRAY THE CONCEPT OF TEAMWORK? PROVIDE SPECIFIC EXAMPLES FROM THE MOVIE.
- DISCUSS HOW EACH CHARACTER'S STORY CONTRIBUTES TO THE OVERALL MESSAGE OF THE FILM.
- IN WHAT WAYS DOES "HIDDEN FIGURES" CHALLENGE STEREOTYPES ABOUT WOMEN AND PEOPLE OF COLOR IN STEM FIELDS?

### 3. REFLECTIVE QUESTIONS

THESE QUESTIONS PROMPT PERSONAL REFLECTION AND CONNECTIONS TO BROADER ISSUES. EXAMPLES INCLUDE:

- REFLECT ON A TIME WHEN YOU FACED A CHALLENGE DUE TO SOCIETAL EXPECTATIONS. HOW DID YOU OVERCOME IT?
- HOW DO YOU SEE THE THEMES OF THE MOVIE REFLECTED IN TODAY'S SOCIETY?
- WHAT LESSONS CAN BE LEARNED FROM THE EXPERIENCES OF KATHERINE, DOROTHY, AND MARY?

### 4. GROUP ACTIVITIES

INCORPORATING GROUP ACTIVITIES CAN ENHANCE LEARNING AND ENCOURAGE COLLABORATION. SUGGESTED ACTIVITIES INCLUDE:

- ROLE PLAY: STUDENTS CAN REENACT KEY SCENES FROM THE FILM, EXPLORING CHARACTER MOTIVATIONS AND EMOTIONS.
- DEBATE: DIVIDE THE CLASS INTO GROUPS TO DEBATE THE IMPORTANCE OF DIVERSITY IN STEM FIELDS, USING EXAMPLES FROM THE FILM TO SUPPORT THEIR ARGUMENTS.
- RESEARCH PROJECT: HAVE STUDENTS RESEARCH THE REAL-LIFE FIGURES PORTRAYED IN THE FILM AND PRESENT THEIR FINDINGS TO THE CLASS.

### 5. CREATIVE ASSIGNMENTS

CREATIVE ASSIGNMENTS ALLOW STUDENTS TO EXPRESS THEIR UNDERSTANDING IN INNOVATIVE WAYS. EXAMPLES INCLUDE:

- ESSAY WRITING: STUDENTS CAN WRITE ESSAYS ANALYZING THE FILM'S IMPACT ON SOCIETY OR EXPLORING THE SIGNIFICANCE OF THE CHARACTERS' CONTRIBUTIONS.
- ART PROJECTS: ENCOURAGE STUDENTS TO CREATE POSTERS OR VISUAL REPRESENTATIONS OF THE FILM'S THEMES OR SIGNIFICANT QUOTES.

## IMPLEMENTING THE HIDDEN FIGURES QUESTIONS WORKSHEET IN THE CLASSROOM

TO MAXIMIZE THE EFFECTIVENESS OF THE HIDDEN FIGURES QUESTIONS WORKSHEET, EDUCATORS SHOULD CONSIDER THE FOLLOWING STRATEGIES:

1. PRE-WATCHING DISCUSSION: INTRODUCE THE HISTORICAL CONTEXT OF THE FILM BEFORE WATCHING IT. DISCUSS THE SIGNIFICANCE OF THE SPACE RACE AND THE ROLE OF WOMEN IN STEM.
2. GUIDED VIEWING: PROVIDE STUDENTS WITH SPECIFIC THEMES OR QUESTIONS TO CONSIDER WHILE WATCHING THE FILM, MAKING THEIR VIEWING EXPERIENCE MORE FOCUSED AND MEANINGFUL.
3. POST-WATCHING DEBRIEF: AFTER VIEWING, FACILITATE A CLASS DISCUSSION TO SHARE INITIAL REACTIONS AND INSIGHTS BEFORE DIVING INTO THE WORKSHEET.
4. FLEXIBLE GROUPING: USE DIVERSE GROUPING METHODS FOR ACTIVITIES TO ENSURE THAT STUDENTS LEARN FROM ONE ANOTHER'S PERSPECTIVES.
5. FEEDBACK AND REFLECTION: ALLOW STUDENTS TO SHARE THEIR RESPONSES TO THE WORKSHEET AND PROVIDE FEEDBACK ON THEIR THOUGHTS AND INSIGHTS. ENCOURAGE THEM TO REFLECT ON THEIR LEARNING JOURNEY.

# CONCLUSION

THE HIDDEN FIGURES QUESTIONS WORKSHEET IS A VALUABLE EDUCATIONAL RESOURCE THAT FOSTERS CRITICAL THINKING, COLLABORATION, AND REFLECTION AMONG STUDENTS. BY ENGAGING WITH THE THEMES AND CHARACTERS OF "HIDDEN FIGURES," STUDENTS NOT ONLY LEARN ABOUT AN IMPORTANT HISTORICAL NARRATIVE BUT ALSO GAIN INSIGHTS INTO CONTEMPORARY ISSUES REGARDING RACE, GENDER, AND EQUALITY. AS THEY EXPLORE THE STRUGGLES AND TRIUMPHS OF KATHERINE JOHNSON, DOROTHY VAUGHAN, AND MARY JACKSON, STUDENTS ARE INSPIRED TO PURSUE THEIR PASSIONS AND ADVOCATE FOR A MORE INCLUSIVE AND EQUITABLE FUTURE. THIS WORKSHEET SERVES AS A BRIDGE CONNECTING THE PAST WITH THE PRESENT, ENCOURAGING STUDENTS TO REFLECT ON THEIR OWN ROLES IN SHAPING THE FUTURE.

## FREQUENTLY ASKED QUESTIONS

### WHAT IS THE PURPOSE OF A 'HIDDEN FIGURES QUESTIONS WORKSHEET'?

THE PURPOSE OF A 'HIDDEN FIGURES QUESTIONS WORKSHEET' IS TO FACILITATE DISCUSSIONS AND REFLECTIONS ON THE THEMES, CHARACTERS, AND HISTORICAL CONTEXT OF THE FILM 'HIDDEN FIGURES', WHICH HIGHLIGHTS THE CONTRIBUTIONS OF AFRICAN-AMERICAN WOMEN IN NASA.

### WHAT TYPES OF QUESTIONS ARE TYPICALLY INCLUDED IN A 'HIDDEN FIGURES QUESTIONS WORKSHEET'?

TYPICALLY, THE WORKSHEET INCLUDES COMPREHENSION QUESTIONS, CHARACTER ANALYSIS, THEMES AND MOTIFS EXPLORATION, HISTORICAL CONTEXT INQUIRIES, AND PROMPTS FOR PERSONAL REFLECTION OR CONNECTION TO CONTEMPORARY ISSUES.

### HOW CAN EDUCATORS EFFECTIVELY USE A 'HIDDEN FIGURES QUESTIONS WORKSHEET' IN THE CLASSROOM?

EDUCATORS CAN USE THE WORKSHEET TO GUIDE DISCUSSIONS, PROMOTE CRITICAL THINKING, AND ENCOURAGE STUDENTS TO CONNECT THE HISTORICAL EVENTS IN THE FILM TO CURRENT SOCIAL ISSUES, FOSTERING A DEEPER UNDERSTANDING OF THE TOPICS PRESENTED.

### WHAT SKILLS CAN STUDENTS DEVELOP BY COMPLETING A 'HIDDEN FIGURES QUESTIONS WORKSHEET'?

STUDENTS CAN DEVELOP CRITICAL THINKING, ANALYTICAL SKILLS, COMPREHENSION, AND THE ABILITY TO ARTICULATE THEIR THOUGHTS AND RESPONSES TO COMPLEX THEMES REGARDING RACE, GENDER, AND SCIENCE.

### ARE THERE ANY SPECIFIC THEMES THAT A 'HIDDEN FIGURES QUESTIONS WORKSHEET' FOCUSES ON?

YES, COMMON THEMES INCLUDE PERSEVERANCE IN THE FACE OF ADVERSITY, THE IMPORTANCE OF TEAMWORK, RACIAL AND GENDER EQUALITY, AND THE IMPACT OF HISTORICAL EVENTS ON PERSONAL LIVES AND CAREERS.

### CAN A 'HIDDEN FIGURES QUESTIONS WORKSHEET' BE ADAPTED FOR DIFFERENT GRADE LEVELS?

ABSOLUTELY, THE WORKSHEET CAN BE ADAPTED BY MODIFYING THE COMPLEXITY OF THE QUESTIONS, PROVIDING ADDITIONAL CONTEXT, OR INCORPORATING MULTIMEDIA RESOURCES TO SUIT THE COMPREHENSION LEVELS OF VARIOUS AGE GROUPS.

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LSTM cell state hidden state? -

LSTM: (1)cell state; (2)hidden state hidden state cell state hidden state cell ...

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Linear FC FFN MLP Dense Layer

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logits -

tensorflow/tensorflowlogit sigmoid logistic  $p(x) = \frac{1}{1+e^{-x}}$   $\logit(p) = \log\left(\frac{p}{1-p}\right)$  logit log ...

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