

The Martian Movie Worksheet Answers

THE MARTIAN

(Guided Viewing Worksheet)

- 1.) The Martian movie opens with a Red Planet. What chemical process is responsible for Mars's red color?
- 2.) A Sol refers to a Mars year. One Martian Day is 24.39 Earth hours. How long is a Martian year? (Use cancellation method)
- 3.) What kinds of gases are probably in the astronaut's suit?
- 4.) What do the scientists hope to do with the Mars rock? What can they possibly discover?
- 5.) Who is the commander of this mission?
- 6.) Who is the pilot?
- 7.) Why are there airlocks on Mars and how do you think they work?
- 8.) Why did Commander Lewis reduce the pressure inside the airlock, before stepping outside with the crew?
- 9.) What is the full name of the astronaut that was struck by debris?
- 10.) Why did the scientists think that using Infrared was a waste of time to find Mark?
- 11.) How was there still enough air-pressure inside Mark Watney's suit even though it was compromised?
Do you think this is possible?
- 12.) Watney was moderately injured. What do you think his risk of infection would be on

The Martian movie worksheet answers are an essential resource for educators and students alike, especially in the context of using the film as a teaching tool in classrooms. Directed by Ridley Scott and based on Andy Weir's bestselling novel, "The Martian" is not just a gripping science fiction story but also a rich source of scientific and cultural discussions. This article aims to provide a comprehensive overview of the movie, key themes, and specific answers to worksheets that educators might use to engage students in discussions about science, survival, and human ingenuity.

Overview of "The Martian"

Released in 2015, "The Martian" follows astronaut Mark Watney (played by Matt Damon) who becomes stranded on Mars after a dust storm forces his crew to evacuate, mistakenly believing him to be dead. With limited supplies and no immediate hope of rescue, Watney must rely on his ingenuity and scientific knowledge to survive while NASA and his crewmates work to bring him home.

Key Themes in "The Martian"

1. Survival and Resourcefulness

- The film illustrates the importance of problem-solving and resourcefulness. Watney's ability to adapt and use the limited resources available to him is a central theme.

2. Science and Technology

- "The Martian" showcases various scientific principles, from botany to engineering, emphasizing the role of science in overcoming challenges.

3. Teamwork and Collaboration

- The efforts of NASA and Watney's crew underline the significance of teamwork and collaboration in achieving common goals.

4. Human Resilience

- The character of Watney embodies human resilience and determination in the face of overwhelming odds.

Using "The Martian" in Education

Incorporating "The Martian" into educational settings can stimulate discussions around various subjects, including science, engineering, ethics, and even philosophy. It provides a practical example of how theoretical knowledge can be applied in real-world situations. Educators often create worksheets to enhance student engagement and understanding.

Common Types of Worksheets

When creating worksheets based on "The Martian," educators may include the following types of questions:

1. Comprehension Questions

- These questions assess students' understanding of the plot, characters, and key events in the film.

2. Scientific Analysis

- This section may include questions that require students to analyze the scientific principles depicted in the movie, such as the growth of potatoes in Martian soil.

3. Character Analysis

- Questions can focus on character motivations, development, and relationships, particularly regarding Watney and his crew.

4. Ethical Considerations

- Discussions about the ethical implications of space exploration and the responsibilities of astronauts and scientists.

5. Creative Assignments

- These may involve students proposing their solutions to scenarios similar to those faced by Watney.

Sample Worksheet Questions and Answers

Here, we will explore some sample worksheet questions related to "The Martian" along with their answers.

Comprehension Questions

1. What event causes Mark Watney to be stranded on Mars?
 - The dust storm that forces his crew to evacuate and leaves him behind, presumed dead.
2. How does Watney initially survive after being stranded?
 - He uses his knowledge of botany to grow potatoes in the Martian soil using his own waste as fertilizer.
3. What is the primary goal of NASA throughout the film?
 - To devise a plan to rescue Watney and bring him back to Earth safely.

Scientific Analysis Questions

1. What challenges does Watney face in growing food on Mars?
 - The lack of oxygen, extreme temperatures, and the need for water are primary challenges.
2. How does Watney create water for his plants?
 - He combines hydrogen and oxygen in a controlled explosion to produce water.
3. What scientific principles are illustrated in Watney's use of the rover?
 - Concepts such as navigation, energy use, and the effects of the Martian atmosphere on equipment are explored.

Character Analysis Questions

1. Describe Watney's personality traits that contribute to his survival.
 - Watney is resourceful, optimistic, and humorous, which help him cope with isolation and adversity.

2. How does the relationship between Watney and his crew evolve throughout the film?

- Initially, they feel guilt over leaving him behind, but their determination to rescue him strengthens their bond.

Ethical Considerations Questions

1. What are the ethical responsibilities of astronauts when exploring new worlds?

- Astronauts have a duty to ensure their safety and to avoid contaminating other planets.

2. Discuss the implications of risking lives for space exploration.

- The potential benefits must be weighed against the risks to human life and the ethical considerations of space travel.

Creative Assignments

1. If you were stranded on Mars, what would your plan be for survival?

- Students can outline their strategies, including food sources, shelter, and ways to communicate with Earth.

2. Design a new piece of equipment that could assist astronauts on Mars.

- This assignment encourages creativity and application of scientific principles.

Conclusion

"The Martian" serves not only as an entertaining film but also as a powerful educational tool. By utilizing movie worksheets, educators can foster critical thinking and engage students in discussions around survival, science, and human resilience. The sample questions and answers provided here can serve as a foundation for creating comprehensive worksheets that help students delve deeper into the themes and scientific principles illustrated in the film. As we continue to explore the possibilities of space travel, "The Martian" reminds us of the importance of ingenuity, teamwork, and the relentless human spirit.

Frequently Asked Questions

What is the main theme explored in 'The Martian' that can be discussed in a worksheet?

The main theme is survival and human ingenuity in the face of adversity, showcasing how determination and problem-solving can overcome seemingly insurmountable challenges.

How can students analyze Mark Watney's character development in their worksheet answers?

Students can discuss how Mark's resourcefulness, humor, and resilience evolve throughout the film, reflecting his growth and adaptability in a life-threatening situation.

What scientific principles are illustrated in 'The Martian' that should be highlighted in worksheet answers?

The film illustrates principles of botany, engineering, and physics, such as the importance of photosynthesis for growing food on Mars and the calculations necessary for space travel.

What role does teamwork play in 'The Martian', and how can this be addressed in a worksheet?

Teamwork is crucial as it highlights collaboration between NASA, the crew, and Mark Watney. Students can analyze how collective efforts and communication lead to successful problem-solving.

What ethical dilemmas are presented in 'The Martian' that could be discussed in a worksheet?

The film presents ethical dilemmas such as the decision to risk lives for one person versus the mission's success, and the responsibilities of space exploration, encouraging students to debate these moral questions.

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