

Name _____ Date _____

Apollo 13 Interdisciplinary Assignment

1) At the beginning of the film, director Ron Howard shows two contrasting scenes: The deaths of the Apollo 1 crew and a party celebrating the landing of Apollo 11 on the moon. How do these scenes foreshadow the rest of the movie?

2) One of the themes of *Apollo 13* is leadership. Circle one of these characters, Jim Lovell, Marilyn Lovell, or Gene Kranz, and then give a specific example of how he or she demonstrates leadership.

3) The *Apollo 13* mission was called a "successful failure." What do you think that means? Use two specific details to support your explanation.

Apollo 13 Interdisciplinary Assignment Answers

Benjamin Tunby

Apollo 13 Interdisciplinary Assignment Answers:

Taking Your Course Online Kathleen M. Torrens, José A. Amador, 2011-10-25 This book offers strategies for transitioning face to face college courses to online formats providing insights from experienced faculty. It covers best practices minimizing errors and maximizing learning. Useful for new online teachers, faculty development professionals and administrators.

Voice of Youth Advocates, 1995 *Resources in Education*, 1997 *Computerworld*, 1984-04-16 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global IT media network. *Bulletin of the Atomic Scientists*, 1961-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world.

Danger in Space Henry M. Holden, 2012-07-01 Soaring through space at 25 000 per hour Apollo 13 was on course for the Moon. Suddenly the three astronauts aboard the spacecraft heard a loud bang. A strong vibration rumbled through the crew cabin. There had been an explosion in the oxygen tank. More than 200 000 miles from Earth Apollo 13 was in grave danger. The astronauts had planned to land on the Moon but now they had a new mission survival. Author Henry M Holden delivers the gripping details of how three astronauts with the help of NASA scientists on Earth turned a story of disaster into one of triumph. **Apollo 13** Alan Pierce, 2005-01-01 Discusses defining moments in American history. **Apollo 13** United States. National Aeronautics and Space Administration, 2000 In 1970 some considered Apollo 13 a catastrophic failure but it has since been recognised as one of NASA's truly great moments when the spirit of daring and ingenuity came to life in the team at Mission Control as they successfully brought the crew home. In Apollo 13 the NASA mission report some of the rare official documentation of the voyage of Apollo 13 is collected and made commercially available for the first time.

The Apollo 13 Mission Kassandra Radomski, 2014 Explains the Apollo 13 crisis including its chronology, causes and lasting effects. **Apollo 13** Laura B. Edge, 2020-03-03 Houston we've had a problem. On April 13 1970 the three astronauts aboard the Apollo 13 spacecraft were headed to the moon when a sudden explosion rocked the ship. Oxygen levels began depleting rapidly. Electrical power began to fail. Astronauts James Lovell, Jack Swigert and Fred Haise were about to be stranded in the inky void of outer space. The mission to the moon was scrapped. Now Apollo 13's only goal was to bring the crew home. With the damaged spacecraft hurtling towards the moon at roughly six thousand miles per hour there was little hope of success. But the astronauts and mission control were fully prepared to do whatever it took to return the crew to Earth. This space disaster occurred at the peak of the United States Space Race against the Soviet Union. But for four days in 1970 the two nations put aside their differences and the entire world watched the skies hoping and praying the astronauts would return safely. As missions to Mars and commercial space flight become a reality the time is now to be reminded of our common

humanity of how rivals can work together and support each other towards a shared goal Because no matter what happens or where we travel we all call Earth home *Apollo 13* Michael D. Cole,1995 Planned as the third U S mission to the moon and fated to become a major space emergency the flight of Apollo 13 was a struggle for survival against the cold and emptiness of outer space Give your readers an unforgettable look at this mission

The Apollo 13 Mission Helen Zelon,2001-12-15

Discusses the Apollo 13 mission and surviving an explosion in space **Houston, We've Had a Problem** Charles River Charles River Editors,2017-12-20 Includes pictures Includes accounts of the mission written by the astronauts and members of Mission Control Includes online resources and a bibliography for further reading Includes a table of contents The only experiment we completed on Apollo 13 was not on the original mission list James Lovell Jr In the summer of 1969 Apollo 11 successfully landed men on the Moon for the first time in history and Apollo 12 successfully landed astronauts on the Moon just a few months after Apollo 11 s successful mission Apollo 12 was actually more successful than Apollo 11 from the standpoint of fulfilling the mission objectives but it was naturally overshadowed since it did not come first Another reason Apollo 12 is mostly forgotten today can be credited to the dramatic and fateful Apollo 13 mission which took twists and turns nobody could have predicted when it launched on April 11 1970 Apollo 13 s mission was to land on the Moon near the Fra Mauro highlands which were hills that had somehow formed in the middle of a huge crater tens of miles wide The mission was supposed to test for seismic activity and take samples to analyze the crater and try to find an explanation for the formation of the hills Of course as is widely known today Apollo 13 never made the landing The ever dependable Saturn V properly thrust Apollo 13 out of the Earth s orbit and toward the Moon but two days into the voyage the crew heard a loud bang At first the crew was not sure what had happened leading Commander James Lovell to famously transmit to Mission Control Houston we ve had a problem As it turned out one of the main oxygen tanks had ruptured in the Service Module causing a catastrophic failure The Command Service Module s fuel cells all shut down leaving the command Service Module to run on backup batteries In other words Apollo 13 was adrift between the Earth and the Moon with limited battery power With severely limited supplies and power Apollo 13 shut down the Command Service Module altogether and the entire crew had to rely on camping out in the Lunar Module which was only equipped to support two astronauts The Moon landing was obviously out of the question but Apollo 13 still had to orbit around the Moon to head back to Earth a trip that would take four more days Power and water were the two most critical shortages forcing the crew to maintain the Lunar Module at low energy The crew also had to worry about carbon dioxide building up and poisoning them because the Lunar Module s system to remove carbon dioxide was designed to support two people for a few days not three people for four days Once Apollo 13 rounded the Moon and headed back to Earth the crew and Mission Control managed to restart the Command Service Module rerouting power from the Lunar Module to the Command Service Module The crew also had to manually realign the spacecraft for reentry as Lovell had done for Apollo 8 Before reentry the Service Module was jettisoned from the spacecraft

and pictures of it were taken to see what went so terribly wrong The crew then jettisoned the Lunar Module that had saved their lives leaving it to burn up in the Earth's atmosphere On the afternoon of April 17 Apollo 13's Command Module made a nerve wracking but successful reentry into Earth's atmosphere allowing Lovell to consider the mission a successful failure Gene Kranz the Lead Flight Controller at Mission Control considered Apollo 13's safe return to be NASA's finest hour Houston We've Had a Problem The History of the Apollo 13 Mission analyzes the conception of the Apollo program and the events that brought about one of the most famous space missions in history Along with pictures of important people places and events you will learn about Apollo 13 like never before in no time at all **Danger on Apollo 13** David Baker,1988 The account of the 1970 explosion on a space flight that threatened the lives of three U.S. astronauts **Apollo 13** Virginia Loh-Hagan,2018-01-01 Could you survive mechanical failure in space Apollo 13 Mission to the Moon in the True Survival series explores the shocking survival story of the Apollo 13 spacecraft and her crew The book is written with a high interest level and lower level of complexity to serve more mature students reading at lower levels Clear visuals colorful photographs including images of the survivors and considerate text help with comprehension and wild facts hold the readers interest from the first page to the last A table of contents glossary and index all enhance comprehension and vocabulary **Surviving a Space Disaster** Benjamin Tunby,2019-01-01 The Apollo 13 mission began smoothly But an explosion on the spacecraft changed everything Instead of landing on the moon the astronauts were fighting for their lives This true story reveals the quick thinking and teamwork it took to survive [Apollo and America's Moon Landing Program](#) World Spaceflight News,Edgar M. Cortright,National Aeronautics and Space Administration (NASA),2018-04-05 This NASA accident investigation board report named after its chairman Edgar Cortright provides unique details including a complete incident timeline about the causes of the Apollo 13 accident in April 1970 The Apollo 13 mission planned as a lunar landing in the Fra Mauro area was aborted because of an abrupt loss of service module cryogenic oxygen associated with a fire in one of the two tanks at approximately 56 hours The lunar module provided the necessary support to sustain a minimum operational condition for a safe return to earth The Apollo 13 Review Board was charged with the responsibilities of reviewing the circumstances surrounding the accident of establishing the probable causes of the accident of assessing the effectiveness of flight recovery actions of reporting these findings and of developing recommendations for corrective or other actions The Board has made every effort to carry out its assignment in a thorough objective and impartial manner In doing so the Board made effective use of the failure analyses and corrective action studies carried out by the Manned Spacecraft Center and was very impressed with the dedication and objectivity of this effort It became clear in the course of the Board's review that the accident during the Apollo 13 mission was initiated in the service module cryogenic oxygen tank no 2 The accident is judged to have been nearly catastrophic Only outstanding performance on the part of the crew Mission Control and other members of the team which supported the operations successfully returned the crew to Earth The first determination of fifty made by

the board stated The cause of the failure of oxygen tank no 2 was combustion within the tank Analysis showed that the electrical energy flowing into the tank could not account for the observed increases in pressure and temperature The heater temperature sensor and quantity probe did not initiate the accident sequence The cause of the combustion was most probably the ignition of Teflon wire insulation on the fan motor wires caused by electric arcs in this wiring The protective thermostatic switches on the heaters in oxygen tank no 2 failed closed during the initial portion of the first special detanking operation This subjected the wiring in the vicinity of the heaters to very high temperatures which have been subsequently shown to severely degrade Teflon insulation *NASA Apollo 13 Lunar Landing Mission Manual* Unknown, This is a 65 page digital PDF copy of the mission manual for Apollo 13 that was famously portrayed in the Movie Apollo 13 with Tom Hanks This Mission was a near disaster This manual was used for the planning of the entire mission Starting with launch preparations countdown to lift off experiments on the lunar surface and re entry back into Earths atmosphere This is an awesome inside look at the Apollo 13 mission and what was involved Even though there was not a successful lunar landing this mission was extremely successful in the fact that all astronauts survived the mission This mission was a true testament of NASA s expertise and resolve There is a distribution list at the end of the manual to see the names of some NASA hero s involved Enjoy Visit this URL for more information about the Apollo 13 mission http://en.wikipedia.org/wiki/Apollo_13

Report of Apollo 13 Review Board United States. National Aeronautics and Space Administration. Apollo 13 Review Board, 1970 *Apollo and America's Moon Landing Program* World Spaceflight News, James A. Lovell Jr., Fred W. Haise Jr., John L. Swigert Jr., National Aeronautics and Space Administration (NASA), 2017-08-30 This official NASA document provides the complete transcription of the Apollo 13 post flight debriefing given by astronauts Lovell Haise and Swigert with their first hand description of the harrowing flight This ebook is an invaluable addition to the library of anyone interested in the Apollo moon landings Contents include SUITING AND INGRESS STATUS CHECKS AND COUNTDOWN POWERED FLIGHT EARTH ORBIT AND SYSTEMS CHECKOUT TLI THROUGH S IVB CLOSEOUT TRANSLUNAR COAST LUNAR MODULE FAMILIARIZATION SPACECRAFT EMERGENCY LUNAR FLYBY THROUGH 2 HOUR MANEUVER TRANSEARTH COAST ENTRY LANDING AND RECOVERY COMMAND AND SERVICE MODULE SYSTEMS OPERATIONS LUNAR MODULE SYSTEMS OPERATIONS FLIGHT DATA FILE FLIGHT EQUIPMENT AND GOVERNMENT FURNISHED EQUIPMENT VISUAL SIGHTINGS PREMISSION PLANNING MISSION CONTROL TRAINING HUMAN FACTORS Apollo 13 was supposed to land in the Fra Mauro area An explosion on board forced Apollo 13 to circle the moon without landing The Fra Mauro site was reassigned to Apollo 14 At 5 1 2 minutes after liftoff John Swigert Fred Haise and James Lovell felt a little vibration Then the center engine of the S II stage shut down two minutes early This caused the remaining four engines to burn 34 seconds longer than planned and the S IVB third stage had to burn nine seconds longer to put Apollo 13 in orbit Days before the mission backup lunar module pilot Charles Duke inadvertently exposed the crew to German measles Command Module Pilot

Ken Mattingly had no immunity to measles and was replaced by backup command module pilot John Swigert. Ground tests before launch indicated the possibility of a poorly insulated supercritical helium tank in the lunar module or LM descent stage so the flight plan was modified to enter the LM three hours early in order to obtain an onboard readout of helium tank pressure. The No 2 oxygen tank serial number 10024X TA0009 had been previously installed in the service module of Apollo 10 but was removed for modification and damaged in the process. The tank was fixed, tested at the factory, installed in the Apollo 13 service module and tested again during the Countdown Demonstration Test at NASA's Kennedy Space Center beginning March 16, 1970. The tanks normally are emptied to about half full. No 1 behaved all right but No 2 dropped to only 92 percent of capacity. Gaseous oxygen at 80 pounds per square inch was applied through the vent line to expel the liquid oxygen but to no avail. An interim discrepancy report was written and on March 27, two weeks before launch, detanking operations resumed. No 1 again emptied normally but No 2 did not. After a conference with contractor and NASA personnel, the test director decided to boil off the remaining oxygen in No 2 by using the electrical heater within the tank. The technique worked but it took eight hours of 65 volt DC power from the ground support equipment to dissipate the oxygen. Due to an oversight in replacing an underrated component during a design modification, this turned out to severely damage the internal heating elements of the tank.

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