Lift Off!: Scene 1

It was an unusually warm day in January. Margarite and Marc were walking to the popular store in Little Five Points, The Junkman's Daughter. The televisions at Front Page News blared "... this global warming trend continues to cause trouble for citizens around the world. Many are considering how to leave Earth, because they fear polar melting, increased hurricanes, and high temperatures. Satellite images show odd movements of air masses, causing unpredictable forces ..."

Margarite and Marc passed the post office, and then saw a telephone pole with several flyers attached to it: "Free puppies," "Yard Sale Saturday," "Work from home on the Internet!"

Margarite stopped in her tracks and said, "Hey, Marc! Hold on! Here's somethin' about NASA!"

Marc and Margarite stopped to read the flyer.

Lift Off!: Scene 2

NASA Needs You!

Global warming is heating up the Earth and making weather disasters more frequent and more severe! Many people are busy trying to improve life on Earth, but the possibilities of living beyond the Earth must be explored also. The U.S. Department of Homeland Security and NASA are calling for amateur civilian scientists to form teams who can find solutions!

Your mission is to design a model of a rocket which can lift off with enough force to overcome the Earth's gravity and atmosphere. The rocket may orbit the Earth or travel to another planet. Teams must present their designs to NASA scientists for review.

For more information, contact your local NASA Recruiter.

Lift Off!: Scene 3



National Aeronautics and Space Administration

Global warming is heating up the Earth and making weather disasters more frequent and more severe! The U.S. Department of Homeland Security and NASA are calling for amateur civilian scientists to form teams to design rockets to explore possibilities beyond the Earth!

Your mission is to become a NASA-certified rocket scientist. Then your team can design a rocket to leave this unpredictable planet.



Date	Time	Address	Room

Please note that your team will not be cleared to build a rocket until EVERY team member has been certified. NASA suggests group study and good teamwork for best results. When all of your team members are certified, you will receive confidential instructions and information on how to proceed. Good Luck!

N	ASA	National Aeronautics and Space Administration			
Application to Become a Certified NASA Rocket Scientist					
Team Name:					
Names:					
School Name & Address:					
Grade	:	Teacher's Name:			
Please answer the following questions without using the textbook or other resources: 1. What is inertia?					
	a. b. c. d. e.	A magnetic force that brings two objects toge The flow of electricity that helps objects go f The tendency of objects to keep moving unle The idea that forces always come in pairs. None of the above.	ether. Forward. ss acted upon by another force.		
2.	Choos a. b. c. d.	e an example that demonstrates Newton's Thir When Becky kicks a soccer ball, the ball pus Gravity pulls things downward. When you push off the ground to take a step, Answers a & c are correct.	rd Law: hes back on her foot. the ground pushes back on you.		
3.	e. What a. b. c. d	All of the above. is the scientific meaning of pressure? Gravity pulling down on an object. Force over a certain amount of space. An amount of force sometimes measured in p Answers b and c are correct	oounds per square inch (psi).		
4.	e. True o down	None of the above. or false? Air resistance and friction are often th or stops objects.	ne "unbalanced force" that slows		
5.	A rock a. b. c. d. e.	 ket displays Newton's Third Law by: Burning everything underneath it (grass, tree to go upward. Pushing downward with enough thrust so tha Using electricity to just go upward without p Answers a and c are correct. None of the above. 	s, etc.) in order to have enough fuel t the ground will push upward. ushing on anything.		