

ROCKETS AWAY SCORE SHEET
2-Liter Bottle Rockets

Complete the Planning Section of your Rockets Away project book. Complete all the activities within each of the **three** (3) Project Interest Areas. Take part in at least **two** (2) organized project activities and at least **two** (2) citizenship/leadership activities. Build and launch a 2-liter bottle rocket. Record in your Rockets Away notebook the what, when, where, and how you accomplished each activity. If you do optional activities, please record them in your notebook. Include your notebook with your project book for grading.

	POSSIBLE POINTS	MEMBER POINTS
Planning Section (steps 1-4, pp 3-5)	<u>5</u>	_____
Interest Area 1: Rockets and How They Move (pp 6-10)	<u>10</u>	_____
Experiment 1 – Testing Gravity		
Experiment 2 – Let’s Get Lifting		
Experiment 3 – Bouncing Things		
Experiment 4 – Kicking Into Action		
Interest Area 2: Moving Questions About Rockets (pp 11-16)	<u>10</u>	_____
Experiment 5 – Try a Little Lift		
Experiment 6 – Action/Reaction		
Experiment 7 – Add a Nozzle		
Experiment 8 – Add a Stick		
Experiment 9 – Add a Fin		
Experiment 10 – Testing Turbulence		
Experiment 11 – Broom Launch		
Interest Area 3: Let’s Get Launching (pp 17-24)	<u>10</u>	_____
Problem 1 – Center of Pressure Too Close to the Center of Gravity		
Problem 2 – Too Much Resistance to Wind		
Problem 3 – Measuring the Altitude and Velocity of Your Rocket		
Problem 4 – Decrease Weight of Rocket without Compromising Stability		
Problem 5 – Improving Your Rocket’s Design		
Optional Digging Deeper and Going Beyond Activities		

2 Organized Activities p. 4 (List Below)		
_____	<u>5</u>	_____
_____	<u>5</u>	_____

2 Leadership/Citizenship Activities p. 5 (List Below)

_____	<u>5</u>	_____
_____	<u>5</u>	_____
Exhibit: Completed project book, 2-liter bottle rocket constructed by member, and record of launches.	<u>25</u>	_____
Activity Record	<u>20</u>	_____
Total Score	<u>100</u>	_____

COMMENTS: _____

