

Name: _____ Date: _____

Fuel Mystery Dis-Solved Activity – Fuel Analysis Worksheet – 4th-5th Grade

Test 1 – Solid Tablet with Cold Water

Fuel observations: _____

Water observations: _____

Time for reaction to complete (in minutes and seconds): _____

Test 2 – Crushed Tablet with Cold Water

Fuel observations: _____

Water observations: _____

Time for reaction to complete (in minutes and seconds): _____

Test 3 – Solid Tablet with Hot Water

Fuel observations: _____

Water observations: _____

Time for reaction to complete (in minutes and seconds): _____

Test 4 – Crushed Tablet with Hot Water

Fuel observations: _____

Water observations: _____

Time for reaction to complete (in minutes and seconds): _____

Test 5 – Solid Tablet with Vinegar

Fuel observations: _____

Vinegar observations: _____

Time for reaction to complete (in minutes and seconds): _____

Name: _____ Date: _____

Test 6 – Crushed Tablet with Vinegar

Fuel observations: _____

Vinegar observations: _____

Time for reaction to complete (in minutes and seconds): _____

Make a bar graph of your results!

Color in the boxes from left to right until you've reached your recorded time.

Test 1: Solid/cold												
Test 2: crush/cold												
Test 3: Solid/hot												
Test 4: Crush/hot												
Test 5: Solid/vinegar												
Test 6: Crush/vinegar												
	10sec	20sec	30sec	40sec	50sec	1 min	1 min 10sec	1 min 20sec	1 min 30sec	1 min 40sec	1 min 50sec	2 min

Time

Final Question

How would stirring the liquid affect the dissolving antacid? Describe how stirring would affect the “fuel,” and predict whether the antacid would dissolve faster or slower. Why would an engineer want to know this about rocket fuel?
