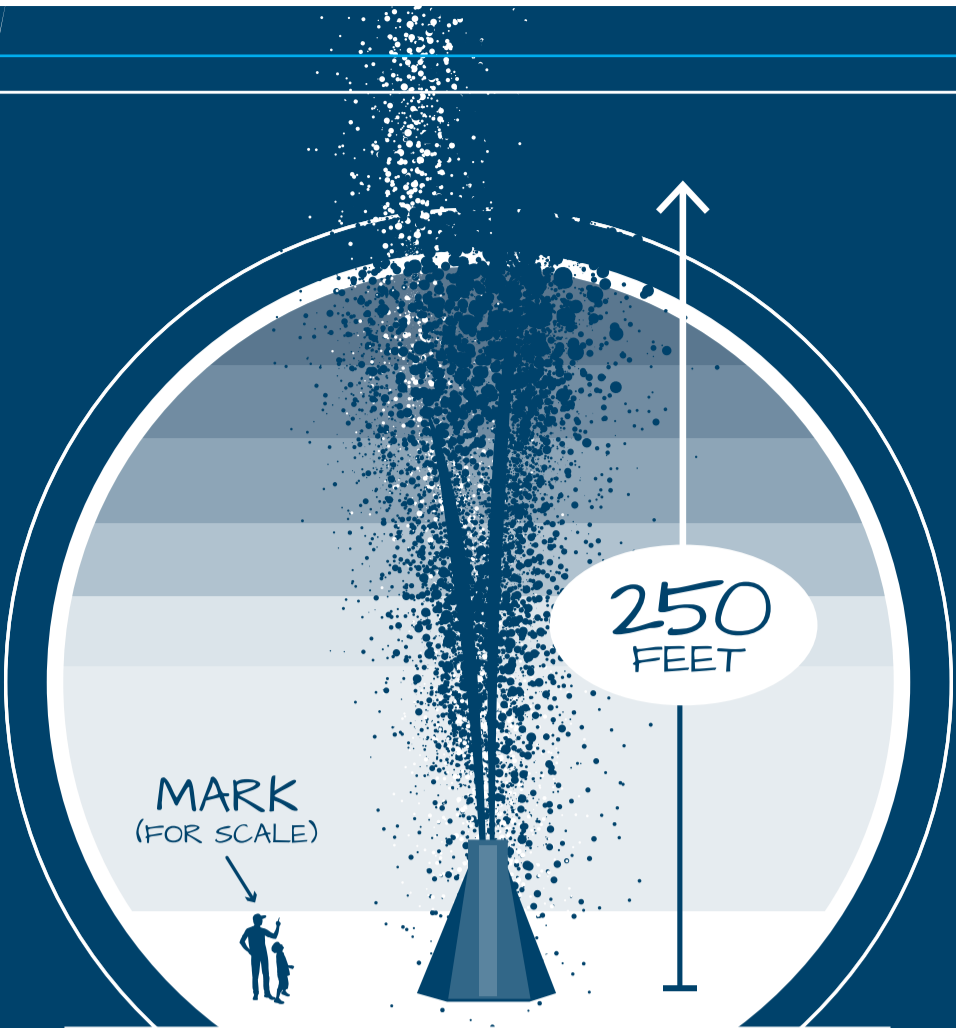


ELEPHANT TOOTHPASTE BLAST



MARK'S WORLD RECORD

MARK ROBER SET THE WORLD RECORD FOR THE HIGHEST ELEPHANT TOOTHPASTE EXPLOSION IN 2021, REACHING A MAXIMUM HEIGHT OF 250 FEET. THE FLASK REQUIRED TO CONTAIN THIS EXPLOSION WEIGHED 5 TONS AND HAD TO BE MADE OUT OF STEEL IN ORDER TO NOT BLAST APART!

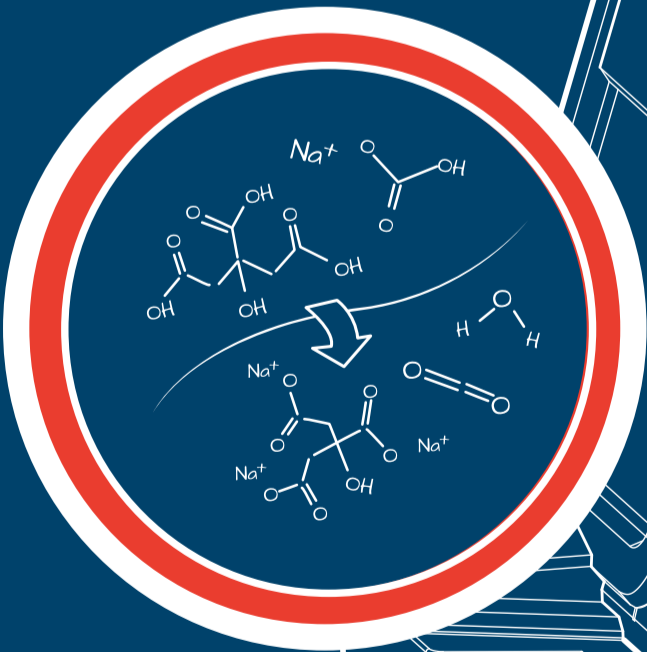


NOZZLE

A NOZZLE IS A SHAPE THAT FORCES A MOVING FLUID TO SPEED UP AS IT TRAVELS THROUGH IT. SENDING ALL THE ELEPHANT TOOTHPASTE FOAM THROUGH A SMALL HOLE IN THE CAP CAUSES IT TO SPEED UP, INCREASING THE HEIGHT OF YOUR BLASTS!

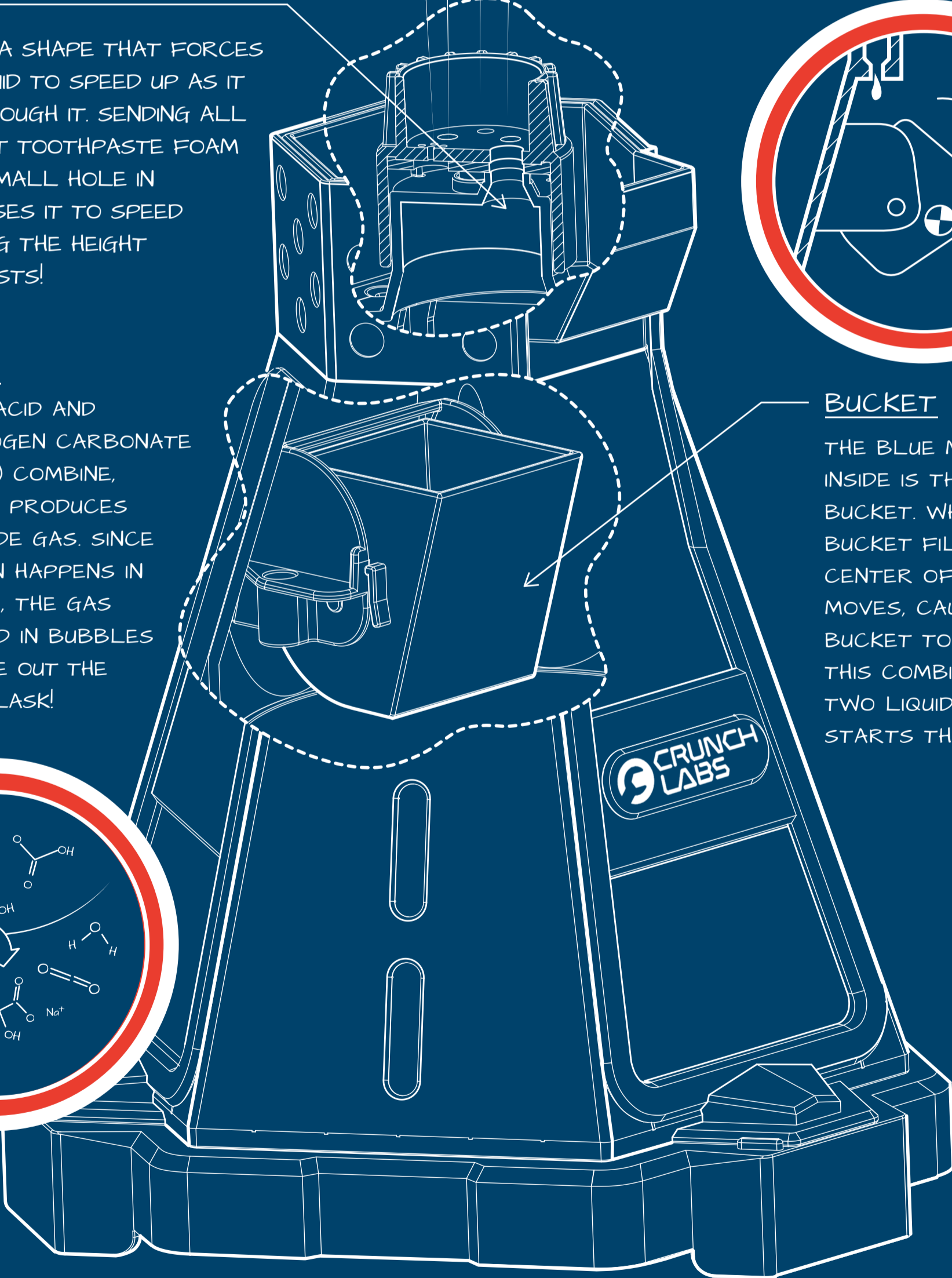
CHEMISTRY

WHEN CITRIC ACID AND SODIUM HYDROGEN CARBONATE (BAKING SODA) COMBINE, THE REACTION PRODUCES CARBON DIOXIDE GAS. SINCE THIS REACTION HAPPENS IN SOAPY WATER, THE GAS GETS TRAPPED IN BUBBLES THAT EXPLODE OUT THE TOP OF THE FLASK!



BUCKET

THE BLUE MOVING PART INSIDE IS THE GRAVITY BUCKET. WHEN THE BUCKET FILLS UP, ITS CENTER OF GRAVITY MOVES, CAUSING THE BUCKET TO TIP OVER. THIS COMBINES THE TWO LIQUIDS AND STARTS THE REACTION!



FRONT



CRUNCHLABS OFFICIAL BLUEPRINT

REVISION: 1.0

MAT'L: ABS/PP

ELEPHANT TOOTHPASTE BLAST