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Mythbusters penny drop worksheet pdf

Myth - A dime falls from a skyscraper landing with enough force to kill pedestrians on the sidewalk below or embed itself onto the sidewalk. Verdict - Broken Note - Firing a dime at terminal speed (65 miles per hour (105 km/h)) into concrete and asphalt discs and ballistic gel heads with human skulls fails to produce any penetration, likely because the speed is too low and the mass of a dime is too small. Even when fired from a rifle, the penny cannot penetrate the concrete or skull of a ballistic gel doll. Even modifying the rifle to shoot a dime at supersonic speeds failed to cause penetration. By comparison, a real 6.5mm bullet split the doll's skull. Visiting the Empire State Building, a possible source of myth, they realized that an updraft and a lower-floor roof would prevent a dime being thrown into street level. [1] † Penny Drop (Episode) on Wikipedia Community content is available under CC-BY-SA unless otherwise stated. Adam and Jamie explore the myth that a dime thrown from the Empire State Building can kill someone. They also explore microwave myths about cooking your organs from too much tanning and investigate the myth of water exploding in the microwave. Finally, they examined the possibility that Lucille Ball was able to pick up radio signals through her dental fillings. Scientific concepts discussed include terminal speed, wind tunnel testing, updraft, clean troops, air resistance, dragging, mass, acceleration, impact force, radio waves, microwaves, ultraviolet waves, water droppings, distilled water, boiling points, superheated water, Faraday cages, point contact diodes, and electric current generation. The episode is about 49 minutes away. terminal speed, wind tunnel testing, updraft, clean troops, air resistance, drag, mass, acceleration, impact force, radio wave, microwave, ultraviolet wave, water droppings, distilled water, boiling point, super hot water, Faraday cage, diode point of contact, electric current generation, dime drop 6, 7, 8, 9, 10, 11, 12

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