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**Kinetic energy calculator bow**

Jump to Backcountry Bowhunting content from the beaten path... We do not regret we recommend you to read our detailed kinetic energy tests and guide for more information. Also, make sure to check out our best crossbow rankings for a scoop on the top equipment on the market. The ballistic arrow calculator below will help you determine the vertical drop, speed, kinetic energy, and momentum of your arrow for up to 70 yards in 10 steps. You must provide the total arrow weight and initial speed for the calculation to be effective, as well as some other optional information (see below). The computer assumes average air density and air violet. Actual ballistic data will vary slightly depending on the weather conditions and how high you are above sea level. These will lead to relatively small variations that you don't have to worry much about. The following values should be considered very narrow estimates of what you will encounter in the field (it should be considered a margin of error of 2%). : - What is the Spine Arrow? - The IBO speed of a composite arc - Buying your first composite arc Think of kinetic energy (KE) as your hammer and arrow as a nail. KE does the job, driving broadheads through concealment, muscle and bone. While most bowhunters pay too much attention to arrow speed, they are only a part of the KE equation. Kinetic energy is affected not only by arrow speed, but also by arrow weight. But, how fast is it fast enough? How heavy is heavy enough? That's the fun in this game. Use the KE computer to help with the task. KE article links: Low-Poundage Bowhunting The best Broadhead for the game Why Momentum KE issues and momentum are easily confused and often alternate. Both include calculations of mass and weight, but in different ways. To simplify, arc hunters can think of momentum as an energy conservation-or penetration-downrange potential. Another way to see it yet is what is needed to stop an arrow at a given distance. In general, Momentum favors heavier projectiles, while KE favors speed. The key is to find the sweet spot. You can go to a lighter arrow to increase your speed and probably get a KE boost. But this will Really reduce your momentum value-and the depth at which your arrow and broadhead will penetrate into a large bull moose. Look at it this way: would it be easier to stop a nail finish at 400 fps or a railroad spike at 300 fps? Again, the Realtree Calculator will do the math for you. Have a good time. Use the following arrow kinetic energy & momentum computer to calculate Momentum and Kinetic Energy. The importance of estimating kinetic energy and momentum momentum time a new Arrow.After having hunted antelope-unsuccesfully-in Arizona, my next hunt will be an archery whitetail hunt in Oklahoma with bending river Outfitters. I'll still be using my Mathews Halon 6, but I've scraped my rapid antelope arrow for a more efficient, energetic arrow. For this hunt, I was looking for something that would approach 100% of the kinetic energy available from my set up with a momentum measurement approaching 0.50. Although kinetic energy (KE) has been the norm for years, I prefer to use momentum-a mathematical calculation of energy-to predict arrow penetration, rather than KE, which is a measurement of potential energy... My bow remained the same: 60-pounds to 27.5 inches of draw. To make the change to the arrow, I went back to our arrow rendering calculator. Knowing I shot my 315-grain antelope arrow at 309 FPS, I entered that data to find the most effective arrow weight for my new whitetail arrow. The results suggested a weight between 400- and 428-grains. With the disadvantage of my short draw length of 27.5 inches and my weight draw of 60-pounds because of a bad shoulder, I decided to go with the fastest arrow within this range, something right around 400-grain... Then went back to our Arrow Weight Calculator, to search for the perfect energy arrow, and chose the Easton FMJ6. At 60-pounds and about 27-inches, the perfect spine was 390, which weighs 9.7 GPI. My completed arrow, with 100-grain Wac'Em, weighed-in at 403-grains. To complete the project, I threw a group of arrows through the chronograph, with an average of 276 FPS ... This Arrow Kinetic Energy & Momentum Calculator can be used to estimate Momentum and Kinetic Energy. - Darren Choate Choate

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