

**Additional features.**

Bullet weight – Cartridges of the same designation will come with different bullet weights. The different bullet weights will allow the shooter to select a cartridge ideally suited to the type of hunting or shooting he or she is doing.

Bullet weights are expressed in grams of weight.

Why would you select a heavy bullet vs a lighter bullet? Well, for example, a 7mm-08 with a 120 gram bullet will leave the muzzle faster than a 140 gram bullet. The lighter bullet will tend to travel on a flatter path, with slightly less drop down range than the heavier 140 grain bullet.

The biggest difference will be in retained energy, with the lighter bullet losing energy more quickly than the heavy one.

Bullet weight selection will depend upon whether the shooter wants a flatter, faster bullet or a slower bullet with more take down power.

*(Where can we find this information?)*

**Ballistics**

*(Not sure what to include in this section? Where do we find information on terms, properties? What's the best way to illustrate this?)*

Many ammunition manufacture's will publish Ballistic tables to show down range performance for their loads. These charts like the one featured in Remington's catalog will give the shooter some general guidance on bullet performance.

(Edit note: show Remington Ballistics table)

These tables are a general guideline to illustrate cartridge performance. The manufacturers use a computer to generate ballistics information, and they assume certain atmospheric, temperature, barrel length, and other variables in order to calculate their numbers.

In the real world the flight of a bullet will vary for a variety of reasons. Altitude, temperature, wind speed, relative humidity, and barometric pressure will all tend to have some effect on the flight of the bullet.

We will not attempt to review the impact of each of these variables on bullet flight in this course, but instead show a shooter how they can use a ballistics chart to understand how a bullet flies and what they can expect to see at different distances.

For purposes of this example, we will chose two bullets, 45-70 Government, a heavy slower bullet, and a 7mm-08, a smaller but faster bullet.

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