

The US Physical Activity Guidelines concluded the following:

#### Muscle-Strengthening Activity

<http://health.gov/paguidelines/guidelines/chapter4.aspx>

Muscle-strengthening activities provide additional benefits not found with aerobic activity. The benefits of muscle-strengthening activity include **increased bone strength** and **muscular fitness**. Muscle-strengthening activities can also help **maintain muscle mass during a program of weight loss**.

Muscle-strengthening activities make muscles do more work than they are accustomed to doing. That is, they overload the muscles. Resistance training, including weight training, is a familiar example of muscle-strengthening activity. Other examples include working with resistance bands, doing calisthenics that use body weight for resistance (such as push-ups, pull-ups, and sit-ups), carrying heavy loads, and heavy gardening (such as digging or hoeing).

Muscle-strengthening activities count if they involve a **moderate to high level of intensity** or effort and work the **major muscle groups** of the body: the legs, hips, back, chest, abdomen, shoulders, and arms. muscle strengthening activities for all the major muscle groups should be done at least 2 days a week.

No specific amount of time is recommended for muscle strengthening, but muscle-strengthening exercises should be performed to the point at which it would be difficult to do another repetition without help. When resistance training is used to enhance muscle strength, one set of **8 to 12 repetitions** of each exercise is effective, although two or three sets may be more effective. Development of muscle strength and endurance is progressive over time. Increases in the amount of weight or the days a week of exercising will result in stronger muscles.

You can read more about the Guidelines here: <http://health.gov/paguidelines/guidelines/default.aspx>