

Why do we do speed work?

We want to get faster! The goal is to Improve VO2 Max, strength, endurance, stamina at race pace, and improve form.

Brain body connection – neuromuscular – muscle memory

Where do we start? How do I know how fast to run?

Speed intervals should be 85% to 97% of current VO2max. Approximate Vo2max = current 3k to 5k pace.

Put simply, your VO2 max is a numerical measurement of your body's ability to consume oxygen. Your VO2 max occurs when your oxygen consumption redlines—this usually happens at a bit faster than your 5k race pace.

Run mile intervals 3-5% faster than race pace. Run 800 meter (1/2 mile) and 400-meter (1/4 mile) intervals 8-12% faster than race pace. And run 200-meter (1/8 mile) intervals 12-15% faster.

We will do a timed 1 mile at race pace and use this time to break down our goal times for future training sessions. We will do a final timed mile at the end to see if we have improved.

We will run different types of speed intervals each week increasing the total amount of interval work throughout.

Start with between 4-6 intervals and increase each week

Rest in between each interval is ¾ to equal time of the interval.

Warm up and cool down – 1 mile easy pace followed by drills and dynamic stretches- Because Meb Keflezighi does them!

High knees – A skip – B skip – butt kicks – fast feet – Carioca – bounces - lunges

Recovery – follow hard days with 1-2 recovery days active or completely off

Should you do speed work for longer distance race training?

Absolutely. Speed work helps improve VO2max as well as improve form, build strength, increase stamina, and improve foot speed

Are there different types of speed work for different distances?

The basics are the same for beginners. Intermediate or advanced runners utilize different speed workouts and intensity based on the distance they are training for. Common intervals are 100 meters, 200 meters, 400 meters (1/4 mile), 800 meters (1/2 mile), 1200 meters, and 1600 meters (1 mile)

Types of speedwork

Striders 15-20 seconds hard with 1 minute jog in between

200 Meter - 5k pace with full recovery ie: 1 minute 200 = 45 second recover and repeat

400 meter - 8 seconds per lap faster than your 5k pace and build up to 14 repeats

800 meter - 5k pace or slightly faster

1600 meter – 5k pace or slightly faster

On the Track

Common finish line – straight line across track

The distance around the track gets further with each lane out – lane 1 is 400 meters, lane 2 is 407, lane 3 is 415, etc.

200 Meters is halfway around the track – use white

400 meter - 1/4 mile - 1 full lap

800 meter – ½ mile - 2 laps

1600 meter – 1 mile – 4 laps

Off the Track

Hill sprints on steep inclines based on repeat times. These are great for aerobic and muscle development. Example: snake hill repeats instead 200 repeats. Easy warm up 1-2 miles, drills, then sprint 40 seconds to minute uphill at very high intensity, walk back down and let heart rate settle, then repeat

Fartlek (Swedish for speedplay)- varying time intervals of 80-90% max intensity with recovery jog in between during a longer run. Example - 10 mile run – easy warm up, start 5 minutes at marathon pace, 2 minutes easy, 5 minutes marathon, 2 minutes easy, repeat. Another fun way is to mix it up with a different person leading the fartlek for different paces and periods making a game of it. This is to train your body to adapt to different speeds and environments.

Negative split – medium long to long run. Start with easy warm up then start decreasing(faster) pace every mile or 2 through the run with a mile cool down. Great training for maintaining pace late in a race.

Lactate Threshold runs – medium to long runs with blocks of half marathon pace incorporated. Example - 12 mile run with 6-8 miles at half marathon pace. Teaches your body to burn and get rid of lactic acid. Must be done by running longer blocks at high intensity.

