



Triathlon Performance Solutions Presents:

The Twelve-Week Race Plan

Race distance: Sprint

Athlete level: Intermediate level with at least two years of sprint or Olympic distance racing experience

Hours per week: five to six

This training plan is to be used in conjunction with a Garmin multisport GPS device or devices. The plan is written so that each session is easy to understand and can be uploaded to your device via the Garmin Training Centre software so your device acts as your coach for each session, guiding you through every step.

The plan is intended to be used as a starting point and is meant to be flexible, so move sessions and days around to fit in with your lifestyle when you need to, but try to avoid cramming too many Hard sessions back to back. If you don't have enough time to complete a full session, just go out and do what you can. A 10-minute run is better than no run at all and it reminds the body what you are training for.

This plan assumes the athlete is starting from a good aerobic base of fitness and has at least two years of experience competing in sprint and/or Olympic distance triathlons.

If you come from a single sports background, consider replacing one session in that sport with your weakest discipline once every 2–3 weeks.

Aim to be as consistent as possible. Consistency is the key to athletic improvement. Take the long view: you won't develop much in a week but you can progress a lot over 12 weeks.

Good luck and enjoy the journey.





Technical Terms:

Back: Backstroke swimming technique.

Breathing Pattern: The number of strokes you take between breaths. It's a good idea to have a regular breathing pattern as this will help you to find a rhythm and focus, especially in open water.

Build: A repetition or session which increases in intensity and/or pace as you go through it.

Catch: After your hand has entered the water to begin your stroke you have the catch phase, where you need to grab as much water as possible with your palm and forearm so you can then pull your body over the water.

Dead Spot: When cycling you have two dead spots during the pedal stroke – one at the dead top and one at the dead bottom. Pedalling efficiently means you minimise the time spent in each dead spot.

Fartlek: A session where you mix your speed/intensity but never actually stop. Literally: to play with speed.

Free: Freestyle. Also known as Front Crawl swimming style.

OWS: Open Water Swimming, or swimming outdoors in a lake, river, the sea etc. Many races in the UK are open water but there are also a lot of pool-based triathlons, especially early and late season. If you're doing an open water race make sure you practise a few times before your event.

Recovery: Time within a session where you are static or moving very slowly to allow the body to recover before the next bout of exercise.

Reps: Repetition: repeated time or distance exercises within a training session.

RPM: Revolutions Per Minute. The number of full revolutions one leg makes in a minute of cycling or the number of contacts with the ground one foot makes in a minute of running. Also described as Cadence.

Tech: Technique session: a session where you are focusing on improvements to technique over speed or intensity.

Turbo: A piece of bike training equipment that locks your bike into a stationary position and applies resistance so you can cycle indoors. Usually a triangular frame.

TT: Time Trial: an effort against the clock where you are aiming to go as far or as fast as possible against a set time or distance target.





Intensity Guideline

Easy or Zone 1:

Basic aerobic endurance training, 50-60% of your maximum heart rate. This zone is the basis of all endurance training and is vital to your ability to support training in the upper zones.

Steady or Zone 2:

Using the mid to upper levels of the aerobic system at 60-70% of your maximum heart rate. You should still be able to talk to someone while training at this intensity, and it is at or just below race pace for many athletes.

Tempo or Zone 3:

This intensity is used mainly in repetitions and progressive sessions and is 70-80% of your maximum heart rate. This intensity corresponds to race pace/intensity for a well-trained athlete. Conversation in this zone is difficult and generally brief.

Hard or Zone 4:

This zone is 80-90% of your maximum heart rate. Training in this zone increases your ability to process oxygen and lactic acid and pushes your maximal aerobic capacities higher, but this can only be sustained if you have a good base in the lower intensities.

Max or Zone 5:

Close to maximum pace and can only be maintained for short periods of time (1–8 minutes). This intensity corresponds to 90-100% of your maximum heart rate and is used sparingly in training compared to the other zones but it can have big benefits to production of power/force and maximum oxygen uptake.





Phase One – Establishing Base Fitness – This phase is to establish your Base level endurance. This is a key stage that allows you to support the latter, higher intensity phases. This plan assumes that you already have a good level of Base endurance so this phase is relatively short.

Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Set 1: 30min Z1 Do 5-10 min of light mobility work before commencing your run. Aim to hold a consistent HR and pace so don't go out too hard. You should finish feeling good. 5min stretching to finish.	Set 1: 300m Z1 swim with a little bit of backstroke. Set 2: 2x50m kick Z1 + 10sec. Set 3: 6x200m swim or pull Z2 + 20sec. Set 4: 200m Z1 swim. Don't worry about	Set 1: 5min Z1 @ 90 RPM Set 2: 5min Z1 @ 80 RPM. Set 3: 45min Z1 Spinning at 90–95 RPM. Set 4: 5min Very Easy Can do this on road or turbo. Focus on smooth pedalling	All Z1+20sec.	Work on your weakest discipline: Easy Run 30 or Easy Bike 60 or Steady Swim 1.8. Work on Technique. Don't worry about speed, just get some extra miles in on your weakest sport.	Easy Bike 60: Set 1: 5min Z1 @ 90 RPM Set 2: 5min Z1 @ 80 RPM. Set 3: 45min Z1 Set 4: 5min Very Easy Straight off the bike	Moveable Day off: Take the day off to recover from your week. Ideally on this day but it can be moved if it works better to fit into your week. Do some light stretching or get a massage if you can.
	Set 1: 300m Z1 swim with a little bit of backstroke. Set 2: 2x50m kick Z1 + 10sec. Set 3: 6x200m swim or pull Z2 + 20sec. Set 4: 200m Z1 swim Count your strokes on every 3rd 50m of your 200's and aim to swim the same speed as last	Set 1: 50min running in Z1. Keep intensity even throughout the session. This will help to build your base endurance	Ideally take the day off here but you can move this day off to another day in the week if it fits your schedule better.	with a little bit of backstroke.	Set 2: 10min Z2 Set 3: 6min Z3, Set 4: 5min Z1 Before the run do 10- 15min of core strength exercises. Build your pace throughout the session and maintain your form. Finish with 10min of stretching	Repeat the following 2x: Set 1: 45min Z1 Set 2: 15min Z2 Ride on undulating terrain. Don't worry too much if your HR goes into Z2 or even Z3 for short periods during the 45min Z1 over hills. Stay in seat over any hills and pedal	Set 3: 8min Z2 @ 75 RPM Set 4: 2min Z1 @ 85 RPM Finish with: Set 5: 5min L1 Easy spinning. Do this session on the Turbo or a set of





Phase Two – Progressing Specific Endurance – This phase builds on your Base phase and introduces more race – specific sessions where you are working at or above race intensity.

Week	Monday	Tuesday	Wednesday	Thursday		,	Sunday
Three	Set 1: 200m Z1 swim Free and Back Set 2: 2x50m Z1 Drill + 10sec Set 3: 4x50m + 15sec building each 50m Z1- Z2-Z3-Z4. Set 4: 3x300m Z3 swim + 30sec Set 5: 200m Z1 swim Free and Back Aim for your target	Repeat the following 6x: Set 2: 1min Z3 Set 3: 1min Z1 Set 4: 8min Z1 Work on your technique during the pace variation. Maintain a high RPM, stand tall and pick your knees up whether you are running fast or slow.	Set 1: 5min Z1 @ 85 RPM Set 2: 5min Z2 @ 90 RPM Set 3: 5min Z3 @ 95 RPM Set 4: 5min Z1 Set 5: 16km TT best effort. Record Time and HR	Set 1: 300m Z1 swim mix of free and back. Set 2: 5x(25m kick, 50m drill, 75m swim) All Z1+20sec. Set 3: 150m Pull or Swim Z1. Work on your recovery and catch at front of stroke.	Take the day off to recover. Ideally on this day but it can be moved if it works better to fit into your week. Do some light stretching or get a	Set 2: 12min Z2 Set 3: 8min Z3, Set 4: 5min Z1 Aiming to maintain the same pace as the build run the week before but for slightly longer. Finish with 10min of stretching	Long Bike 120: Repeat the following 2x: Set 1: 45min Z1 Set 2: 15min Z2 Long Easy to Steady ride on flat to undulating terrain. Focus on keeping cadence around 90-95 and being efficient. Remember to eat and drink during the ride and ride with a group of friends if you can.
	Set 1: 200m Z1 Free and Back Mix Set 2: 3x200m Z1 Pull + 20sec working on an early catch Set 3: 200m Z1 mix of free and Kick Use this session to loosen the legs from the past couple of days. Relax in the water and work on your technique	Set 1: 5min Z1 @ 85 RPM Set 2: 5min Z2 @ 90 RPM Set 3: 5min Z3 @ 95 RPM Set 4: 5min Z1 Repeat the following 5x: Set 5: 4min L4 @ 95 RPM	Work on your weakest discipline: Easy Run 30 or Easy Bike 60 or Steady Swim 1.8. Work on Technique. Don't worry about speed, just get some extra miles in on your weakest sport.	Set 1: 5min Z1 Set 2: 3min Z2 Set 3: 2min Z3 Set 4: 5min Z1 Set 5: 3km TT Best effort. Record Time and HR Set 5: 10min Z1 Run on a flat surface.Try to use the	Set 1: 3x100m Z1 + 10sec. Mix of kick, pull and swim Set 2: 10x100m Z2 + 10sec. Do the first 5 pull and the last 5 swim Set 3: 300m Z1 mix free and back Work on your stroke during the pull and then maintain form when you introduce your kick.	Tempo Bike 50: Set 1: 5min Z1 @ 85 RPM Set 2: 5min Z2 @ 90 RPM Set 3: 5min Z3 @ 95 RPM Set 4: 5min Z1 Set 5: 20min Z3 @ 95 RPM Set 6: 10min Z1 Run off bike Tempo Run 20: Set 1: 10min Z3	Moveable Day off: Ideally take the day off here but you can move this day off to another day in the week if it fits your schedule better but try not to do back to back hard sessions if you can avoid it. Work on your nutrition, especially your recovery after a hard or long session where you need to take in both carbs and protein within 30min of finishing.





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Fiv		Easy Run 30:			Hard Run 50:		Steady OW 30:
		After 5–10 min of light			Set 1: 5min Z1	Repeat the following	Swim Open water to
	Free and Back		10sec. Mix of kick, pull		Set 2: 5min Z2	3x:	start getting used to
	Set 2: 2x50m Z1 Drill +				Set 3: 5min Z3		that environment again.
	10sec	Aim to hold a		thousands on buying a		RPM	Set 1: 5min Z1
		consistent HR and pace		bike but then never get			Repeat the following
	building each 50m Z1-		pull and the last 2 swim		3x:	RPM	2x:
	Z2-Z3-Z4.	hard. You should finish			Set 5: 6min Z4		Set 2: 8min Z2
	Set 4: 3x300m Z3 swim			worthwhile investment.		terrain. Pedal smoothly	
	+ 30sec	stretching to finish.		Not only will it help you		over hills. Remember to	
	Set 5: 200m Z1 swim			to be more comfortable		hydrate and fuel during	
	Free and Back			and efficient on the	Aim to be as fast on	the ride.	Finish with:
	Aim for your target		session last week where		your third rep as your		Set 4: 5min Z1 kicking
	race speed on the				first. Keep cadence		and swimming.
	300's.			you won't get off the	high even when tiring		Nice and relaxed and
				bike as fatigued	and remember your		enjoy.
					recovery nutrition.		
Six	Day Off:	Tech Swim 1.2:	Easy Run 30:	Day Off:	Option Session:	Bike to Run Brick	Long Run 50:
517	Recovery Week.	Set 1: 300m Z1 swim	Set 1: 30min Z1	Enjoy a bit of a sleep ir		Tempo Bike 60:	Set 1: 50min running in
	Massage or light	mix of free and back.		and do some light		Set 1: 5min Z1 @ 85	Z1. Keep intensity even
	stretching session -	Set 2: 5x(25m kick,			off here, otherwise	RPM	throughout the session.
	focus on the big	50m drill, 75m swim)		the evening		Set 2: 5min Z2 @ 90	This will help to build
	muscles: Glutes,	All Z1+20sec.	Keep working on your	are evening	discipline:	RPM	your base endurance
	Quads, and	Set 3: 150m Pull or	technique, even when			Set 3: 5min Z3 @ 95	which will support your
	Hamstrings.	Swim Z1.	running slowly. Don't		Bike 60 or Steady	RPM	higher intensity work
	l lamstrings.	See if you can get a	get sloppy. Pick up		Swim 1.8.	Set 4: 5min Z1	later on. Keep RPM high
		swim coach to have a	knees, stand tall and		=	Set 5: 30min Z3 @ 95	throughout and stand
		look at your stroke and			Don't worry about	RPM	tall with good
			95		speed, just get some	Set 6: 10min Z1	technique. 5-10min of
		your technique.				Run off bike	light stretching to
		your teeminque.			weakest sport.	Tempo Run 20:	finish.
					weakest sport.	Set 1: 10min Z3	Congratulations!
						Set 2 10min Z1	You're half way through
						Work on form during	your preparation. Aim
						vour run.	to continue being
						your run.	consistent with your
							training.
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Set 1: 200m Z1 Free and Back Mix Set 2: 5x200m Z1 Pull + 20sec working on an early catch Set 3: 200m Z1 mix of free and Kick Use this session to loosen the legs from the past couple of days. Relax in the water and work on your technique	Repeat the following 4x: Set 5: 2min Z3 Set 6: 1min Z1 Set 7: 1min Z4 Set 8: 1min Z1 Then finish with:	Set 1: 5min Z1 @ 90 RPM Set 2: 5min Z1 @ 80 RPM. Set 3: 45min Z1 Spinning at 90–95 RPM. Set 4: 5min Very Easy Can do this on road or turbo. Focus on smooth pedalling. This will help to recover your legs from yesterday's hard run	Set 1: 200m Z1 swim Free and Back Set 2: 2x50m Z1 Drill + 10sec Set 3: 4x50m + 15sec building each 50m Z1- Z2-Z3-Z4. Set 4: 3x300m Z3 swim + 30sec	RPM Set 2: 10min Z2 @ 75 RPM Stay in the seat over	Set 1: 60min running in Z1. Slight increase in the length of your long run. Keep working on your technique. Take a couple of gels with you and take one at 20min and another at 40min	recover from your
Set 1: 200m Z1 swim with a little bit of backstroke. Set 2: 2x50m kick Z1 + 10sec. Set 3: 2x500m swim Z2 + 50sec. Set 4: 200m Z1 swim. Slightly longer reps to improve endurance. Keep counting strokes every 3rd 50m to check you are holding your form together	Repeat the following 3x: Set 2: 3min Z1 single leg @ 90 RPM swapping legs every 30sec Set 3: 8min Z2 @ 75 RPM Set 4: 2min Z1 @ 85 RPM Finish with:	Set 1: 15min Z1 Set 2: 12min Z2 Set 3: 8min Z3, Set 4: 5min Z1 Use the same course as you did in week 3 and compare. You should see an increase in distance run for the same effort.	Have you thought about what equipment you are going to use in your race? Now is a good time to start getting organised so you can practise using it in training.	RPM Set 2: 5min Z2 @ 90 RPM Set 3: 5min Z3 @ 95 RPM Set 4: 5min Z1	Set 1: 5min Z1 Repeat the following 3x: Set 2: 5min Z2 breathing bilaterally if you can Set 3: 2min Recovery Set 4: 3min Z3 Set 5: 2min Recovery Finish with:	Steady Run 50: Set 1: 50min running in Z2. Slight increase in intensity, getting used to pushing at a higher intensity for longer. Keep RPM high throughout and stand tall with good technique. 5-10min of light stretching to finish.





Nine	Moveable Day off:	Easy Run 30:	Test Swim 1.3:	Easy Bike 60 2:	Build Swim 1.8:	Option Session:	Test Bike 60:
	This week is a recovery	Set 1: 30min Z1	Set 1: 300m Z1 swim	Set 1: 5min Z1 @ 90	Set 1: 3x100m Z1 +	Work on your weakest	Set 1: 5min Z1 @ 85
	and testing week so	Do 5-10 min of light	with a little bit of	RPM	10sec. Mix of kick, pull	discipline:	RPM
	take it easy and enjoy	mobility work before	backstroke.	Set 2: 5min Z1 @ 80	and swim	Easy Run 30 or Easy	Set 2: 5min Z2 @ 90
	some easier session.	commencing your run.	Set 2: 4x50m + 15sec	RPM.	Set 2: 600m Z2 swim +	Bike 60 or Steady	RPM
		If legs are sore you	building each 50m Z1-	Repeat the following	60sec.	Swim 1.8.	Set 3: 5min Z3 @ 95
		could do this session as	Z2-Z3-Z4.	5x:	Set 3: 400m Z3 swim +	Work on Technique.	RPM
		an aqua jog at the pool.	Set 3: 50m Z1	Set 3: 15sec Z5	40sec	Don't worry about	Set 4: 5min Z1
			Recovery.	Spinning at 100–105	Set 4: 200m Z4	speed, just get some	Set 5: 16km TT best
			Set 4: 400m TT aiming	RPM.	Set 5: 300m Z1 mix	extra miles in on your	effort. Record Time and
			for your best time.	Set 4: 4min 45sec Z1 @	free and back	weakest sport.	HR
			Compare with the test	90 RPM	Hold your technique		Set 5: 10min Z1
			in week 2. Control your	Finish with:	together as you		Use the same location
			intensity to start	Set 4: 5min Z1	increase your speed.		as your test in week 3.
			Set 5: 4x25m kick Z2 +	The sprints will help to	Remember to relax		
			10sec, 150m Z1 swim.	wake your legs up.	your arm during the		
					recovery phase.		

Phase Three – **Race Specific** – Now you have done the bulk of the hard work and the sessions now become shorter but often with higher intensity. This is the time to practice pushing yourself hard like you will in you race and understand how to pace yourself properly.

Week	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Ten	Tech Swim 1.2:	Easy Bike 60 2:	Test Run 40:	Day Off:	Tempo Swim 1.6:	Race Simulation Brick	Option Session:
	Set 1: 300m Z1 swim	Set 1: 5min Z1 @ 90	Set 1: 5min Z1	Enjoy a bit of a sleep	Set 1: 200m Z1 swim	Tempo Bike 50:	If you are still feeling
					Free and Back	Set 1: 5min Z1 @ 85	tired take another day
		Set 2: 5min Z1 @ 80			Set 2: 2x50m Z1 Drill +	RPM	off here, otherwise
	50m drill, 75m swim)	RPM.		the evening. Book your	10sec	Set 2: 5min Z2 @ 90	work on your weakest
	All Z1+20sec.	Repeat the following	Set 5: 3km TT Best	bike in to be serviced	Set 3: 4x50m + 15sec	RPM	discipline:
	Set 3: 150m Pull or	5x:	effort. Record Time and	now so it's not a last	building each 50m Z1-	Set 3: 5min Z3 @ 95	Easy Run 30 or Easy
			HR	minute rush before you	Z2-Z3-Z4.	RPM	Bike 60 or Steady
	Work on your recovery	Spinning at 100–105	Set 5: 10min Z1	race.	Set 4: 800m Z3 swim +	Set 4: 5min Z1	Swim 1.8.
	and catch at front of	RPM.	Use the same location		30sec	Set 5: 20km Z3 @ 95	Work on Technique.
	stroke.	Set 4: 4min 45sec Z1 @	as your run test in		Set 5: 200m Z1 swim	RPM	Don't worry about
		90 RPM	week 4. Don't go out		Free and Back	Run off bike	speed, just get some
		Finish with:	too hard, pace your		Use the 800m rep to	Tempo Run 25:	extra miles in on your
		Set 4: 5min Z1	effort. Run in the same		practice your pacing for	Set 1: 3km Z3	weakest sport.
		Can do this on road or	,		your race. Visualise	Set 2 10min Z1	
		turbo. The sprints will	and don't wear socks if		yourself swimming in	Use this session to	
		help to wake your legs	you won't race in them		the event.	practice pacing for the	
		up.				race. Use race kit.	





Set 1: 5min Z1 Set 2: 4min Z2 Set 3: 3min Z3 Set 4: 2min Recovery Repeat the following 4x: Set 5: 2min Z3 Set 6: 1min Z1 Set 7: 1min Z4 Set 8: 1min Z1	and Back Mix Set 2: 3x400m Z1 Pull + 20sec working on an early catch Set 3: 200m Z1 mix of free and Kick Longer reps to prepare for your race. If you're going to be racing in a wetsuit, use it for part or all of this session.	Bike 60 or Steady Swim 1.8. Work on Technique. Don't worry about speed, just get some extra miles in on your	RPM Set 4: 5min Z1 Repeat 4x: Set 5: 3min L4 @ 95 RPM Set 6: 2min L1 @ 85 RPM	Set 1: 200m Z1 swim Free and Back Set 2: 2x50m Z1 Drill + 10sec Set 3: 4x50m + 15sec building each 50m Z1- Z2-Z3-Z4. Set 4: 800m Z3 swim + 30sec Set 5: 200m Z1 swim Free and Back Use the 800m rep to practice your pacing for your race. Visualise yourself swimming in the event.	Set 2: 5min Z2 @ 90 RPM Set 3: 5min Z3 @ 95 RPM Set 4: 5min Z1 Set 5: 15min Z3 @ 95 RPM Run off bike Tempo Run 20:	Day off: Congratulations – All the hard work is done now. Start to do some visualisation of your race to mentally prepare.
Set 1: 200m Z1 swim with a little bit of backstroke. Set 2: 2x50m kick Z1 + 10sec. Set 3: 4x50m as 25m Z5, 25m Z1 + 30sec Set 4: 100m Z1 swim and kick Set 5: 400m Z3 swim	Get a massage here, but only if you have been getting them regularly. Otherwise some light stretching. Write out a timeline from the evening before the race up to race start so you are clear about what you are doing and where you need to be. Refer to the race website or info you have received.	Hard Bike 30: Set 1: 3min Z1 @ 85 RPM Set 2: 3min Z2 @ 90 RPM Set 3: 5min Z3 @ 95 RPM Set 4: 3min Z1 Repeat 2x: Set 5: 2min L4 @ 95 RPM Set 6: 1min L1 @ 85 RPM Set 7: 30sec L5 @ 100 RPM Set 8: 2min L1 @ 85 RPM Finish with: Set 7: 5min Z1 @ 90RPM	Start organising all your race kit and put it in one place or in the bag you will take to the race. Take spares of essential kit like goggles, shoe laces,	Set 1: 5min Z1 Repeat the following 5x: Set 2: 30sec Z4 Set 3: 1.5min Z2 Finish with: Set 4: 5min Z1 Run on a soft surface in your race shoes if you can. Don't force the pace during your 30sec pick ups. You should be starting to feel pretty good so let the speed come naturally.	Set 1: 100m Z1 + 20sec Set 2: 100m Z2 + 20sec Set 3: 100m Z3 + 20sec Set 4: 4x25m Z4 + 20sec Set 5: 100m Z1 Free and Back Easy bike 20: Set 1: 20min Z2 @ 95RPM Use the bike ride to check gears and brakes	enjoy yourself!





Ben Bright is the Great Britain Men's Olympic Triathlon coach for the 2012 Games. He is also a former Olympic triathlete (Sydney 2000) who has coached World Champion and Olympic triathletes. His business, Triathlon Performance Solutions, provides coaching and training camps for age group athletes who are serious about maximising their potential.

More information on Ben and Triathlon Performance Solutions at

www.triath lonper formance solutions.com