





### **WEEKS 1-2:**

will focus on strength training and base runs, with an introduction to interval training.



## **WEEKS 3-4**;

will move towards tempo and speed training, with strength as a supporting element.



### **WEEKS 5-6**;

The final weeks are mostly interval and tempo work with mediated strength training to improve aerobic and performance capacity.



- This programme is designed with the improvement of weaknesses at its core; its design therefore allows you to repeat any week of the programme you feel is necessary until you've made good progression before moving onto the next training block
- Each session is accompanied with a nutritional guide (pre-during-post) to let you know which product best complements that particular session

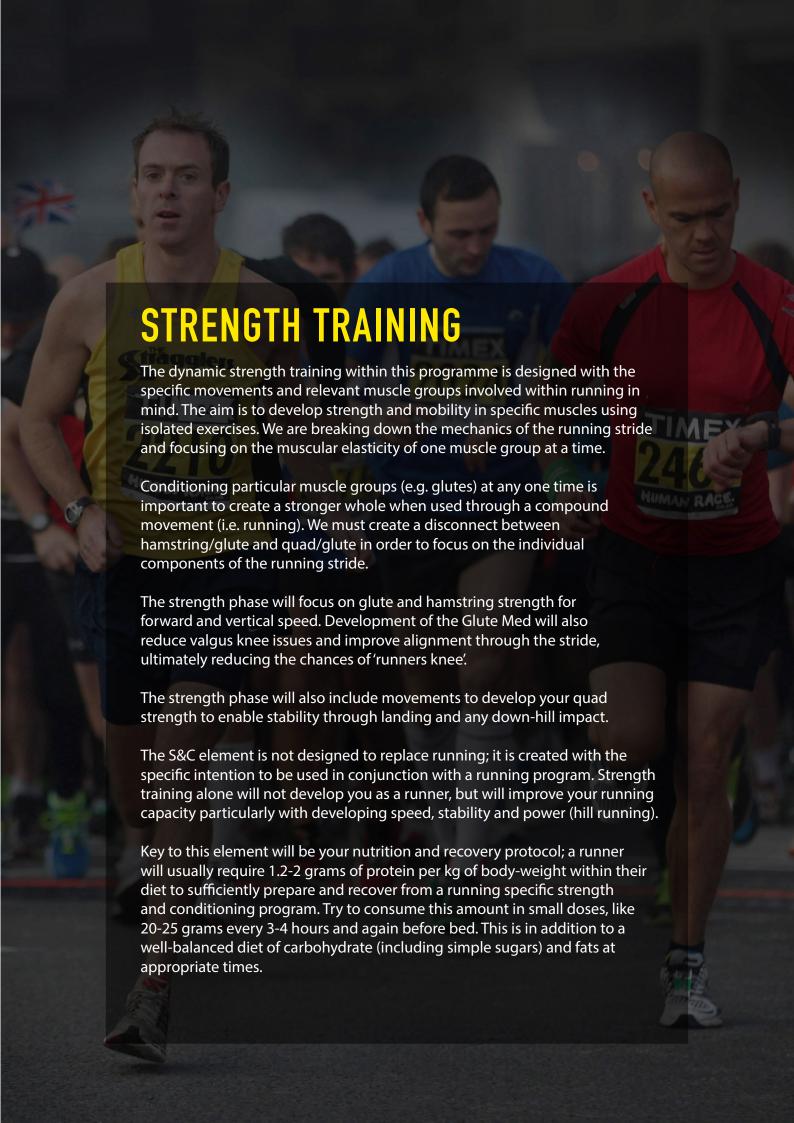
- The program is design to use strength training to complement running and help build muscular strength alongside your running; the strength component is not designed to replace running, it should be used in conjunction with the structured running program to aid progression and improvement
- Training speeds: The 1.5 mile tempo test at the start of week 1 is designed to give you an indicator of not only your fitness but also your threshold training levels. The pace at which you can run 1.5 miles is your maximum threshold pace, your tempo pace for training runs should be based on this

Click here to download our pace percentage calculator sheet.

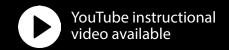
# THERE ARE NO SHORT CUTS TO RUNNING PERFORMANCE.

# STICK WITH THE PROGRAM AND YOU WILL IMPROVE.

- Max Willcocks, SiS Ambassador and Running Coach



# STRENGTH & CONDITIONING



Dynamic Stren	gth x20 reps
Lunge <b>•</b>	Single leg good morning (10 x reps each leg)
Rotational lunge <b>•</b>	Isometric lunge hold (45 secs)
Split lunge	Isometric lunge quad hold (45 secs)
Squat •	Sumo Squat
Side squat <b>•</b>	Curtsy Squat •

Plyometric Strer	ngth x20 reps
Jump Squat •	Jump squat to sumo
Jumping split lunge •	Reverse lunge to jumping knee skip
Lateral squat skips •	

Core Strengtl	n x20 reps
Mountain climbers	V-Sits
Russian twists	Plank (45 secs)

# **WEEK 1-2**

# BASE & STRENGTH (STRENGTH DEVELOPMENT)

#### Overview:

Week one will focus on the strength & development of muscles required for efficient, controlled and powerful running technique by using the above strength based exercises. This will be coupled with base mileage to help build leg strength and injury prevention.

The S&C element will also help with our mobility as we become comfortable working within a larger range of motion than our normal running stride.

A small amount of interval training sessions are included, none of which are overly demanding (or shouldn't be, so scale appropriately).

At the start of the program you will also find a base test, which will be completed again at the end of the program so you can measure your improvement.

Sunday		No S&C	Rest Use 1x WHEY20 between meals		Take it easy today, but make sure you keep your protein intake up by using a WHEY20 between breakfast and lunch and dinner.
Saturday	Whey Protein & GO Electrolyte	4x all core exercises	6 miles base @ comfortable pace 50-60% pace Isotonic gel/ GO Electrolyte powder	1 x REGO Rapid Recovery Serving	The longest run of the week, use GO Electrolyte to top up energy stores pre training and carry a bottle with you during your run. Recover with REGO within 30 minutes.
Friday	Whey Protein & GO Electrolyte	4x all dynamic strength exercises	Pre run 1x caffeine gel 5 mile run of 1 mile intervals. 1 mile @ slow (50% pace) 1 mile @ fast (75-85% pace) Alternate till 5 miles.	1 x REGO Rapid Recovery Serving	Take a whey protein shake throughout the day, before the session as well as a pre-run caffeine gel to aid concentration during the 5 miles.
Thursday	GO Hydro	No S&C	Easy base run 4 miles. Nothing faster than 65% pace	1 x Whey Protein Serving	Today won't require much energy. Use GO Hydro to 'pre hydrate' and rebuild using a whey protein shake.
Wednesday	GO Electrolyte	2x all core and all dynamic strength exercises.	Negative split 4 mile progressive run- 60%/65% /70%/75% pace Speed up each mile During Run: Isotonic Gel	1 x REGO Rapid Recovery Serving	With full body S&C and 4 mile run, use GO Electrolyte throughout the day and during exercise to top up energy stores. Use REGO post session to aid recovery.
Tuesday	GO Hydro	2x all plyo exercises.	5 mile base run @ 50-60% pace During Run 1x Isotonic gel	1 x REGO Rapid Recovery Serving	Use GO Hydro to 'pre hydrate'
Monday	GO Electrolyte	2x all dynamic strength	Pre run 1x caffeine gel 1.5 miles as fast as possible. 90-95% pace	1 x REGO Rapid Recovery Serving	Caffeine can be used to decrease the perception of fatigue during short runs. The high intensity nature will deplete energy fast, making REGO important for recovery.
WEEK 1	Pre training nutrition	Strength & training	Running	Post training nutrition	Nutrition Rationale

# **WEEK 1–2**

# BASE & STRENGTH (STRENGTH DEVELOPMENT)

#### Overview:

Building on our first week of base and strength training the aim in week 2 is to perform the base running more comfortably whilst progressing the interval training.

There is more of an emphasis on building the dynamic strength component as we work to develop our muscular elasticity. We will look to develop muscular tension over a larger range of motion without over stimulating muscles.

There will also be an introduction to hill training (glute stimulus).

Remember: you can choose to repeat weeks 1 or 2 before moving on to weeks 3-4 if you feel there are areas of weakness here.



Sunday		No S&C	Rest Use 1x WHEY20 between meals		Take it easy today, but make sure you keep your protein intake up by using a WHEY20 between breakfast and lunch and dinner.
Saturday	GO Electrolyte	4x all core exercises	7 mile base run 55-65% pace During Run: Isotonic gel	3x scoop REGO Rapid Recovery	Carry an Electrolyte gel or GO Electrolyte bottle during your run and consume throughout. Recover within 30 minutes of finishing with REGO.
Friday	WHEY Protein & GO Electrolyte	4x all dynamic strength exercises	Pre Run  1x caffeine gel  1 mile base then 4x 6 min fast (75% pace)  3 mins slow (55% pace)	3x scoop REGO Rapid Recovery	Use GO Electrolyte in the morning as well as WHEY20 between breakfast and lunch. Use a caffeine gel immediately pre run and recover with REGO.
Thursday	GO Hydro	No S&C	Rest Use 1x WHEY20 between meals		Take it easy today, but make sure you keep your protein intake up by using a WHEY20 between breakfast and lunch and/or lunch and dinner.
Wednesday	GO Electrolyte	3x all core & all dynamic strength exercises.	Negative split 4 mile progressive run-60%/65%/70%/75% pace Speed up each mile Speed up each mile Isotonic gel/ GO Electrolyte powder	3x scoop REGO Rapid Recovery	With full body S&C and 4 mile run, use GO Electrolyte throughout the day and during exercise to top up energy stores. Use REGO post session to aid recovery.
Tuesday	GO Electrolyte	3x all dynamic strength 1x all plyometric	2 mile base 50-60% pace then 4x 3 min fast 80% pace 3 mins slow 50% pace Bace	3x scoop REGO Rapid Recovery	A tough S&C and interval session requires GO Electrolyte to help keep carbohydrate levels topped up. Use REGO post run to replace stores.
Monday	GO Electrolyte	4x all dynamic strength	Pre run 1x caffeine gel 5 mile base 50-60% pace then 1 mile increased pace 70- 90% pace	3x scoop REGO Rapid Recovery	Caffeine can be used to decrease the perception of fatigue during short runs. The high intensity nature will deplete energy fast, making REGO important for recovery.
WEEK 2	Pre training nutrition	Strength & training	Running	Post training nutrition	Nutrition Rationale

# **WEEK 3-4**

# STRENGTH & INTERVAL (SPEED DEVELOPMENT)

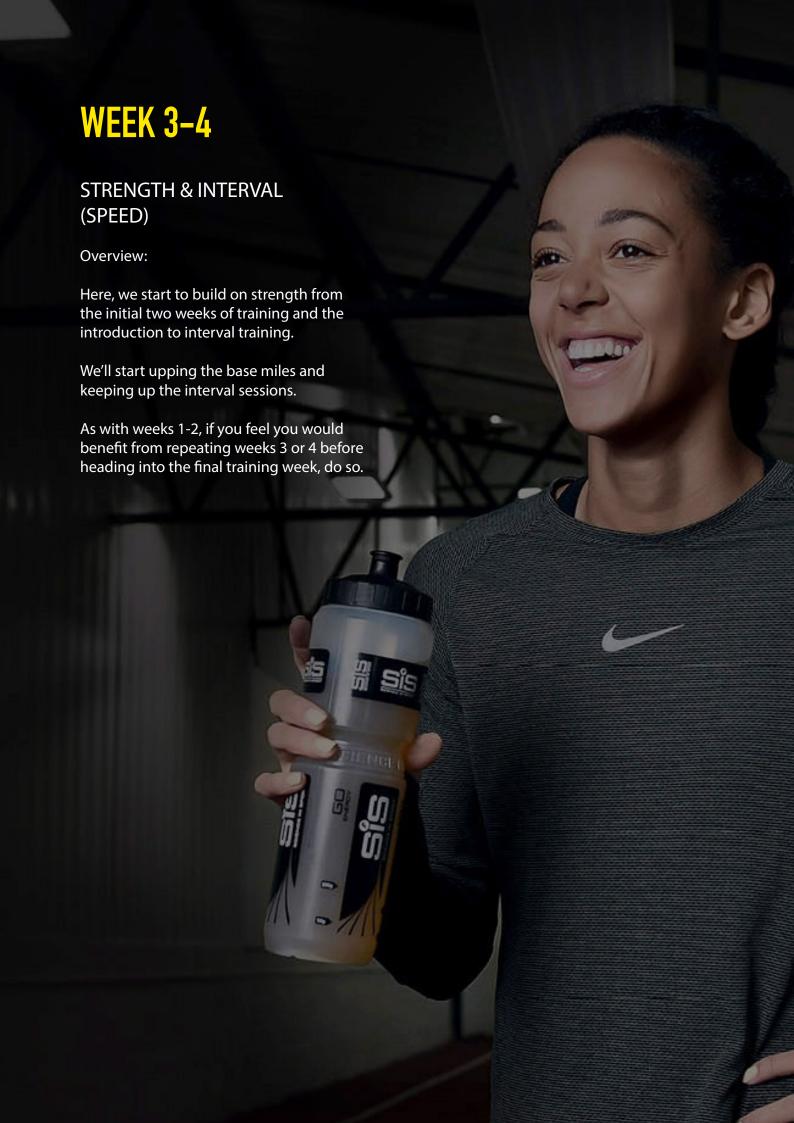
#### Overview:

Here we start to look at the development of interval work in preparation for more reliance on tempo training in week 5.

We still incorporate strength training, but the emphasis here is on it being functional and explosive.

We'll start to introduce light tempo sessions and start to vary the incline to maintain muscular strength.

Sunday	GO Hydro	Rest	Rest Use 1x WHEY20 between meals		Keep hydrated throughout the day using 1 or 2 GO Hydros. Take a WHEY20 between meals to keep your protein intake up.
Saturday	GO Electrolyte	4x all core exercises	7 mile base 55-65% pace During Run: Isotonic gel/ GO Electrolyte powder	1 x REGO Rapid Recovery Serving	Carry an Electrolyte gel or GO Electrolyte bottle during your run and consume throughout. Recover within 30 minutes of finishing with REGO.
Friday	GO Electrolyte	4x all plyometric strength	Pre Run  1x caffeine gel  1 mile base 55-65% pace then 5x 6 min fast 75% pace 3 mins slow 50% pace	1 x REGO Rapid Recovery Serving	Use GO Electrolyte in the morning as well as 1x WHEY20 between breakfast and lunch. Use a caffeine gel immediately pre run and recover with REGO.
Thursday	GO Hydro	Rest	Rest Use 1x WHEY20 between meals		Take it easy today, but make sure you keep your protein intake up by using a WHEY20 as a snack.
Wednesday	GO Electrolyte	2x all dynamic strength 2x all plyo strength	Pre run 1x caffeine gel 2 mile base 55-65% pace then 4x 3 min fast 80% pace 3 mins slow 55% pace	1 x REGO Rapid Recovery Serving	Use a GO Electrolyte to top up energy stores throughout the S&C session. Recover after the run using REGO within 30 minutes of finishing.
Tuesday	GO Electrolyte	2x all plyometric strength 2x all core strength	Prerun 1x caffeine gel 1 mile warm up 55-65% pace 12x 400 meter repeats 100% pace with 1 minute rest. 1 mile warm down 55-65% pace	1 x REGO Rapid Recovery Serving	A tough S&C and interval session requires GO Electrolyte to help keep carbohydrate levels topped up. Use REGO post run to replace stores.
Monday	GO Electrolyte	3x all plyometric exercise, 1x all dynamic strength	Pre run 1x caffeine gel 10x 1/2 mile intervals. Alternate fast 75% pace & slow 55% pace	1 x REGO Rapid Recovery Serving	Caffeine can be used to decrease the perception of fatigue during short runs. The high intensity nature will deplete energy fast, making REGO important for recovery.
WEEK 3	Pre training nutrition	Strength & training	Running	Post training nutrition	Nutrition Rationale



Sunday	GO Hydro	Rest	Rest Use 1x WHEY20 between meals		Keep hydrated throughout the day using 1 or 2 GO Hydros. Take a WHEY20 between meals to keep your protein intake up.
Saturday	Whey protein & GO Electrolyte	4x all core exercises	8 mile base 55-65% pace During Run: 1 x  sotonic gel + electrolyte powder	1 x REGO Rapid Recovery Serving	Use GO Electrolyte during your run and consume throughout. Recover within 30 minutes of finishing with REGO. This is the longest run of the week.
Friday	Whey protein & GO Electrolyte	4x all plyometric strength	Pre Run  1x caffeine gel  1 mile base, 55% pace 4x 4 mins fast 75% pace 2 mins slow 55% pace  1 mile warm down	1 x REGO Rapid Recovery Serving	Use GO Electrolyte in the morning as well as 1x WHEY20 between breakfast and lunch. Use a caffeine gel immediately pre run and recover with REGO
Thursday	GO Hydro	Rest	Rest Use 1xWHEY20 between meals	1 x REGO Rapid Recovery Serving	Take it easy today, but make sure you keep your protein intake up by using a WHEY20 as a snack
Wednesday	Whey protein & GO Electrolyte	3x all plyo strength 2x all dynamic 1x call ore	Pre run 1x caffeine gel 10x 1/2 mile intervals. Alternate fast 75% pace & slow 55% pace	1 x REGO Rapid Recovery Serving	Use a GO Electrolyte to top up energy stores throughout the S&C session. Recover after the run using REGO within 30 minutes of finishing
Tuesday	Whey protein & GO Electrolyte	3x all plyometric strength 1x all core strength	Pre run 1x caffeine gel 4 mile base 55% pace 6x 400 meter repeats 100% pace with 1 min rest	1 x REGO Rapid Recovery Serving	A tough S&C and interval session requires GO Electrolyte to help keep carbohydrate levels topped up. Use REGO post run to replace stores.
Monday	Whey protein & GO Electrolyte	3x all plyometric exercise, 1x all core strength	Pre run 1x caffeine gel 1 mile base 55% pace, 8x 3 mins fast 75% pace 3 mins slow 55% pace	1 x REGO Rapid Recovery Serving	Caffeine can be used to decrease the perception of fatigue during short runs. The high intensity nature will deplete energy fast, making REGO important for recovery.
WEEK 4	Pre training nutrition	Strength & training	Running	Post training nutrition	Nutrition Rationale

# WEEK 5

# INTERVAL AND TEMPO (SPEED ENDURANCE)

#### Overview:

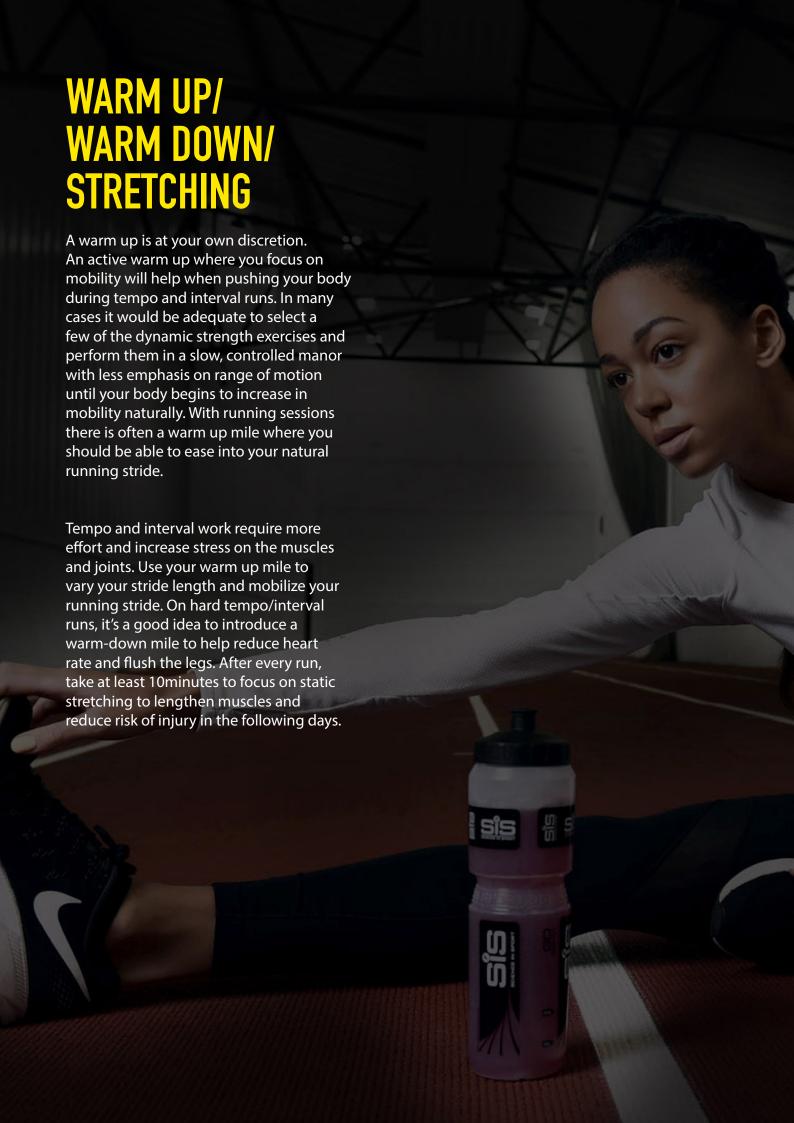
In our final week, there will be a small amount of strength training, 1-2 times per week.

There will now be a strong reliance on tempo and interval training with an occasional easy base run to act as active recovery.

Mileage for the week will start to decrease as intensity of sessions increases.

The week ends with a repeat of the base test which was completed day 1 week 1; remember, give it everything and enjoy seeing the improvement.

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
GO Ele	GO Electrolyte	GO Electrolyte	GO Hydro	GO Electrolyte	GO Electrolyte	GO Hydro
3x all plyometric strength 1x all core strength	all letric 1x all ength	2x all core strength	Rest	4x all plyometric strength	4x all core exercises	Rest
Pre run 1x caffeine gel 1/2 mile warm up 55% pace 2 mile tempo 75% pace 1/2 base 55% pace 3 mile tempo 75% pace	un ne gel warm pace empo 6 pace 6 pace ace	Pre run 1x caffeine gel Track intervals: 1600M 80% 1400M 85% 1000M 90% 800M 90% 600M 95% 400M 100% 200M 100%	Rest Use 1xWHEY20 between meals	4 mile base 50-60% pace During Run: Isotonic gel/ GO Electrolyte powder	Pre run 1x caffeine gel 1.5 miles as fast as possible 100% pace	Rest Use 1x WHEY20 between meals
1 x REGO Rapid Recovery Serving	O overy g	1 x REGO Rapid Recovery Serving		1 x REGO Rapid Recovery Serving	1 x REGO Rapid Recovery Serving	
Similar to yesterday. An electrolyte gel can be used instead, providing carbohydrate and electrolytes, which can aid hydration.	to An Are be Bead, ng rate rate	A tough interval session requires pre fuelling using an electrolyte or caffeine gel. This can help you gain the mental advantage. Recover with REGO	Take it easy today, but make sure you keep your protein intake up by using a WHEY20 as a snack	Not the toughest of days, but taking on GO Electrolyte throughout is good practice for when you need to fuel during a competition.	This will be a tough 100% run. Prepare with a caffeine gel and recover with REGO	Keep hydrated throughout the day using 1 or 2 GO Hydros. Take a WHEY20 between meals to keep your protein intake up.



# SPORTS NUTRITION 101 FOR RUNNERS

We've put together a summary of the key nutritional areas for runners to consider and how to apply them over the winter months.

#### **IMMUNITY**

During winter months, we are often more susceptible to colds and infections. For this reason, it is important to ensure we are not deficient in vitamins and minerals by always including salad and vegetables with main meals as well as consuming fruit with snacks and in smoothies etc. Additionally, vitamin C is know to promote immune function and for this reason, it is also useful to consume SiS Immune either during your training sessions or with one of your main meals.

#### **ENERGY**

Carbohydrate remains the main fuel source for runner's over winter, particularly with high intensity based sessions.
Carbohydrate is stored in the muscles and liver as glycogen, when you exercise, this carbohydrate is broken down into glucose and transported to the muscles to be used as energy.

You will not be able perform at your best without sufficient carbohydrate stores and you could 'hit the wall' during your run. For sessions under 90 minutes, the focus should be on pre-exercise nutrition but for higher-intensity sessions or sessions lasting over 90 minutes, aim to hit 60g per hour. This can be done with a range of SiS energy products (bars, gels, GO Electrolyte), the preference of which to use is largely individual. Although many of your training runs may not last this long, It's important to practice your fuelling strategy in training, so when it comes to race day, you know what works!

#### **HYDRATION**

Sweating is generally reduced with colder temperatures, but during intense exercise (even in cold weather) you sweat and with this you lose electrolytes. Fluid, along with electrolytes need replacing or you will become dehydrated. Here, emphasis should be on starting runs in a hydrated state which can kick start your performance, helping you to maintain hydration throughout the duration of your run. Adding electrolytes to your water can help you better retain and absorb fluid into the system, allowing you to hydrate more effectively.

#### **RECOVERY**

The aim of recovery is to make the most out of your training, increase adaptations and be ready to train again with minimal fatigue. During high intensity sessions your body will use up its carbohydrate stores. Recovery starts as soon as you finish and your muscles are most receptive to replinshing your glycogen stores within the first 30 minutes. You should take advantage of this window by consuming carbohydrate within minitues of finishing your session . REGO Rapid Recovery is the ideal full recovery product containing carbohydrate, protein, key electrolytes as well as vitamins and minerals.

#### **REBUILD**

During intense conditioning exercise muscle fibres tear, which is what causes muscle soreness. Muscle fibres are made from proteins, whitch are made from amino acids known as the building blocks of protein. Muscle protein synthesis is the process of rebuilding these muscle fibres. Consuming high quality protein with a full amino acid profile can help initiate protein synthesis. All SiS protein products contain a full amino acid profile and are ideal to take when you haven't dipped into your energy stores too much. To keep protein synthesis active throughout the day, we recommend that you consume 20-25g of protein every 3-4 hours. A WHEY20 can help you hit this goal, with an innovative and convenient format.

#### **CAFFEINE**

Caffeine acts centrally on the brain to lower the perception of effort. We recommend that adults should try and limit their caffeine intake to around 300mg per day, although there is an individual tolerance that only you will know! When preparing for a short, high intensity run, take your caffeine gel around 30 minutes before so that plasma caffeine peaks during the run. Is caffeine not for you? Use an Isotonic Gel or Electrolyte gel instead, still providing you with 22g of carbohydrate.





# TRAINING INFORMATION

All training information in this guide has been created by Max Willcocks. Max is an ultra/trail runner, as well as a nutritionist with a background in strength & conditioning. He has raced in various events all over the world, from cross country skiing in the arctic to mountain running in the Colorado Rockies

You can find out more about Max here:









# **NUTRITIONAL INFORMATION**

All nutritional information in this guide has been provided by Science in Sport's Performance Nutritionist Ted Munson.

Ted has worked in elite sport for the past four yeas, working with athletes in rugby and tennis and most recently with Hull City Football Club as a sports scientist. Ted has a degree in BSc in Sports Science from Hull University and is currently working towards his MSc in Sports Science, focusing on hydration markers in elite athletes.

Got any more nutrition questions?

Email nutrition@scienceinsport.com and SiS' expert team will answer them!

# The Science in Sport Promise

When you commit so much time, energy and determination to being the best you can be, you want a sports nutrition partner that truly understands endurance sport – one that you can trust to provide the best products and expert guidance.

Science in Sport's expertise, combined with feedback from the elite athletes such as Sir Chris Hoy and Mark Cavendish, ensure SiS continue to innovate and improve their existing range of trusted endurance nutrition products. Our passion means our products are truly trusted and recommended.

SiS tests products over and over again until they are right. We do this to ensure we provide

you with the right range of products with the best possible ingredients for your needs – so that you can focus on performing to the best of your ability. That's our promise – the best science to deliver the best products and the best advice for your sports nutrition.

#### Disclaimer

The contents of this guide are to help readers prepare for marathons safely and effectively. It should not be used as a substitute for proper medical advice. If you are in any doubt about whether you are able to tolerate marathon training, always seek proper medical advice. SiS or the author cannot be held responsible for illness arising out of the failure to seek medical advice from a doctor.



www.scienceinsport.com nutrition@scienceinsport.com





