SPRINT RELAY EXCHANGES AND SPEED DEVELOPMENT

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SPRINT RELAY EXCHANGES

- SPRINT RELAYS
 - -400M RELAY
 - -800M RELAY
 - -1600M RELAY
 - TECHNICAL ASPECTS
 - VARIOUS REQUIREMENT FOR INDIVIDUAL LEGS
 - PSYCHOLOGICAL ASPECTS?





GETTING STARTED

KEY POINTS

RULE #1-

• THE TEAM THAT GETS THE BATON AROUND THE FASTEST WINS

RULE # 2-

YOU WON'T GET TO USE THE 4 SPRINTERS
 YOU WANT TO USE

RULE # 3-

• SOMEONE WILL SCREW UP. . . MAKE SURE THEY ARE READY

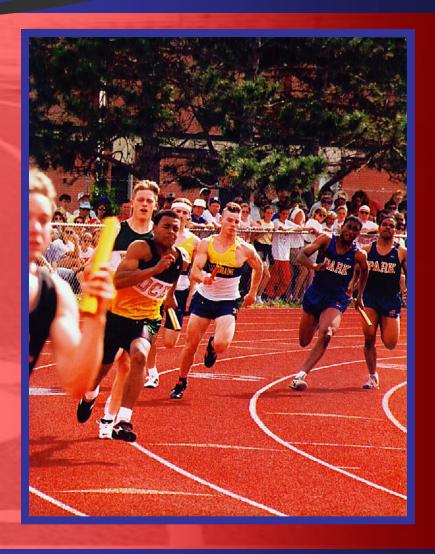




400 METER RELAY

400M RELAY

- TRADITIONALLY
 - 1ST LEG AND ANCHOR FASTEST
- SPECIAL REQUIREMENTS
 - REFER TO RULE #1
 - BLOCK SKILLS
 - RUNNING THE CURVE
 - ABILITY TO WORK WITH HANDOFF PARTNER
 - NERVES (CAN YOUR
 FASTEST KID TAKE THE
 PRESSURE OF
 ANCHORING)
 - WEAK LINK









Right Side Left Hand

17 to 25 Steps

Left Side Right Hand



400M RELAY

- PASSING THE BATON
 - CLOSED EXCHANGE
 - INCOMING RUNNER
 - WHEN TO CALL STICK
 - AIM FOR ELBOW THEN PALM
 - SHOOT ARM STRAIGHT FORWARD
 - OUTGOING RUNNER
 - SNATCH VS LAYOUT
 - CHECK OFF POINT?
 - HIP CHECK
- PRACTICE
 - CHECKING FOR SPEED
 - MAKE THIS PART OF YOUR SPEED TRAINING
 - -VIDEO!!!!!





300 METER RELAY



800M RELAY

- -TRADITIONALLY
 - TREATED LIKE 400M RELAY
- SPECIAL CONSIDERATIONS
 - BLOCK SKILLS
 - WIND
 - INDOOR Vs
 OUTDOOR
 - CONSISTENCY WITH THE STICK
 - WEAK LINK (LESS ROOM TO PLAY)





SET UP 1ST AND 2ND 800 M RELAY

Ø OUTDOOR

WHERE TO START

SPECIAL CONSIDERATIONS

SOFT RELEASE

EMERGENCY CHECK POINT

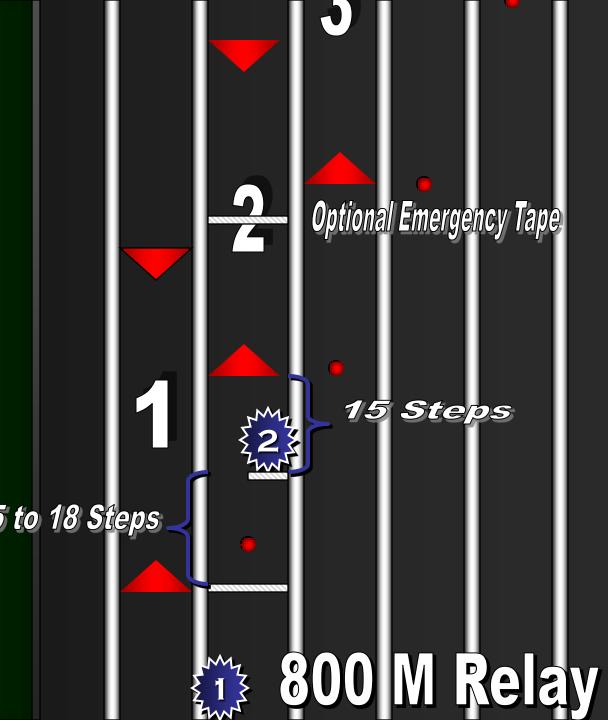
ADJUSTING TO THE INEVITABLE

PRACTICE
CONSIDERATIONS 15 to 18 Steps

INDOOR

ORDER

EXCHANGES



1600M RELAY

- 1600M RELAY
 - PROMOTE THE CULT TO THE
 4x4
 - IT'S AN HONOR NOT A PUNISHMENT
 - TRADITIONALLY
 - 1ST LEG AND ANCHOR FASTEST
 - SPECIAL CONSIDERATIONS
 - INDOOR VS OUTDOOR
 - COMPETITION
 - Do you have a kid who would rather die than lose? If yes he or she is your anchor!
 - PREPARING FOR #3



RULE #3 IN ACTION





1600M RELAY

- PASSING THE BATON
 - -OPEN EXCHANGE
 - -HOLDING THE BATON
 - -INCOMING RUNNER
 - CANDLE STICK
 - **-OUT GOING RUNNER**
 - THREE STEP AND TURN
 - TEACH 2ND TANGENT AT THE BREAK
 - -INDOOR





SPEED TRAINING

CHRIS HERRIOT

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PERSONAL BACKGROUND

- HIGH SCHOOL
 - -KETTLE MORAINE
- COLLEGE
 - -UW-MILWAUKEE/ UW LA CROSSE
- ARROWHEAD
 - -HEAD COACH SINCE 2003





ALL-TIME SPRINT RELAYS

Updated 2008

Evan Resimius, Casey Panawash.B		
Danny Zeigler, Blake Vassar	1:31.78	"(
B. Le Monds, S. Kleinhans,		
R. Klienhans, Sarsfield	131.6	- 5
Te Tribinais, bastera	131.0	
M. Berendes, Wes Kavelaris		
Carl Goelmer, E. Felt	1:31.8	"(
Lucas Ciezki, Paul Schiller,		
Jake Vis, Wes Kavelaris	1:32.67	'(
Jake VB, Wes Navelarb	1.32.07	
Momsen, Simpson,		
Tarkowski, Brevard	1.32.9	*9
Jason Prekop, Eric Jankowski		
Brad Peterson, Brendon O'Shea	1.33.01	"(
Eberhardt, Tomasini, Vento, Prust	1.33.0	49
Ebenaidi, Tomasini, Venio, Fiust	1.55.0	-
Trevor Grieber, Jake Vis		
Toney Gruenwald, Joe Greenhagen	1.33.18	"(
T. Le Monds, Justman,	1 22 2	
Simpson, R. Kleinhans	1.33.2	.8
T. Le Monds, B. Le Monds,		
Kowal, Sarsfield	1.33.3	* 5
1600 Meter Relay		
Joe Mcfarland, Jake Vis		
Derek Steinbach, Wes Kavelaris	3:21.06	"0
Danny Zeigler, Jeremy Grams		
Casey Panawash-B., Tim Hucke	3:21.58	"(
Miles Passades Vails Val		
Mike Berendes, Erik Felt Jason Slesper, Brad Peterson	3:21.75	-(
Ason Sleaper, Like Peterson	3.21.73	-
Paul Schiller, Joe McFarland		
Derek Steinbach Wes Kavelaris	3:21.93	"(
Pat Carew, Erik Felt		
Wes Kavelaris, Mike Berendes	3:22.03	"(

Steinbauer, S. Kleinhans, Heidvogel, Sarsfield	3:22.1	'86
Sarsfield, Steinbauer, Linnan, G. Kleinhans	3:22.1	'85
Bolton, Brophy, O' Conner, Boldt	3:22.3	'93
Eicher, Brophy, O' Conner, Boldt	3:22.3	'??
Jake Vis. Tim Hucke		
Derek Steinbach, Wes Kavelaris	3:22.81	'07
Derek belibati, wes Ravelars	5.22.01	07
Wes Kavelaris, Jake Vis		
Tim Hucke, Joe McFarland	3:22.90	'07
im inche, see meranan	5.22.50	0,
Mike Berendes, Alex Sleaper	3.23.57	'03
Erik Felt, Brad Peters on	323.57	
Mike Berendes, David Hucke	3.24.1	°03
Erik Felt, Brad Peters on	32	
Pat Carew, Erik Felt		
Paul Schiller, Wes Kavelaris	3:24.5	'05
		0.5
B. Le Monds, Pardun R. Kleinhans, Sæsfield	3:25.9	'8 7



400 Meter Relay Jason Prekop, Eric Jankowski Zach Swan, Josh Hurlebaus

Chris Pendergast Ryan Hilgendorf Danny Zeigler, Blake Vassar

Trevor Grieber, Cory Pinkner Jake Vis, Tony Gruenwald

Wangerin, Tomasini, Vento, Eberhardt

Prekop, Jankowski, M. Berendes, Hurlebaus

Luke Ceizki, Paul Schiller Tony Grunwald, Wes Kavelaris

Cull, Semann, Eicher, Brophy

Wehlage, Swan, O'Shea, Prekop

800 Meter Relay

Eric Jankowski, Mike Berendes, Brad Peterson, Josh Hurlebaus

Luke Ceizki, Derek Steinbach Paul Shiller, Wes Kavelaris

Jason Prekop, Eric Jankowski, Mike Berendes, Josh Hurlebaus

Luke Ceizki, Derek Steinbach

Jave Vis. Wes Kavelaris

Carl Goehner, Erik Felt Brad Peters on, Mike Berendes

Trevor Grieber, Jake Vis Tony Gruenwald, Wes Kavelaris

Erik Felt Lucus Ceizki Mike Berendes, Brad Peterson 43.1 '03

43.60

43.79

43.9

44.23

44.1

44.2

44.4

1.29.3 '03

1:29.47 '04

1:30.82 '06

1:30.90 '07

1.31.3 '03

1:31.45 '06

1:30.9

'97

٠94



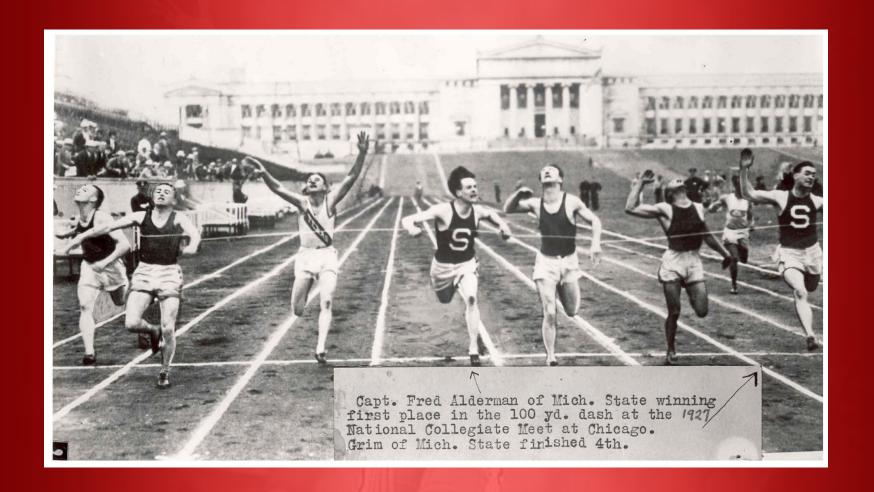
WHAT CONSTITUTES A SPEED WORKOUT?

WHEN DO YOU DO ONE?





AREN'T WE ALL STARTING FROM SCRATCH?





SPRINT PHILOSOPHY

If you want to race fast you have to train fast!





KEY SPRINT BIO-MOTOR ABILITIES

- 1.FLEXIBILITY
- 2. COORDINATION
- 3. WORK CAPACITY
- 4. STRENGTH
- 5. SPEED



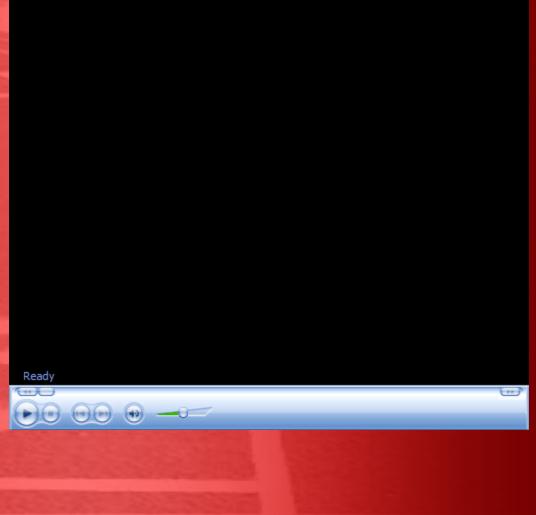


PROPER FORM

- START WITH THE BASICS
 - ARM ACTION
 - SHOOT FOR 90°
 - HANDS
 - DRILLS
 - STRESS AT ALL TIMES









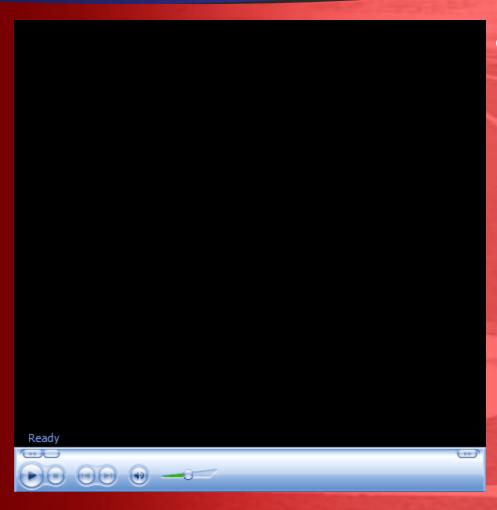








PROPER FORM



- DORSIFLEXTION
 - -WHY IS IT IMPORTANT?
 - -DRILLS
 - CLAW DRILLS
 - -DRAW IN
 - -PELVIC TILT
 - WALL
 - SIDE LYING





CYCLE DRILL

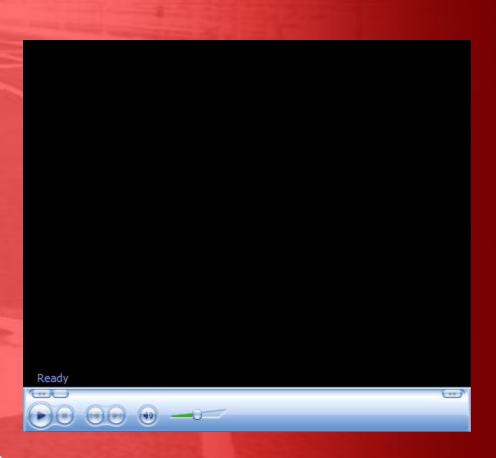






PROPER FORM ACCELERATION

- IMPROVING
 ACCELERATION
 FORM
 - -WALL DRILLS
 - KEEP BODY IN STRAIGHT LINE
 - BACK LEG AND FRONT SHIN SHOULD BE AT SAME ANGLE
- SPEED HARNESS
- FACE TO FACE DRILL
 - NEVER OVER RESIST







WALL DRILL







FORM DRILLS FOR MAXV

- A-SKIPS (FOCUS ON FRONT SIDE OR BACK SIDE MECHANICS)
- BUTT KICKS
 - DON'T REVEAL THE HEAL
 - QUICK STEP ALTERNATING BUTT KICKS
- FAST LEG
- HURDLES
 - MARCH
 - -FAST LEG
- ANKLING
- STEP OVER RUN





SAMPLE FORM DRILLS

- 1. A-Skips
- 2. B-Skips
- 3. Alternating D. B. Kick
- 4. Alternation S. B. Kick
- 5. Butt Kick
- 6. Alternation D.B. Kick
- 7. C-Skips





FORM DRILLS SHOULD BE PLACED IN WARMFUP

Active Dynamic Warm-up

Why not just StaticStretching?

<u>Exercise</u>	Set	Rep/Dis/Dur
Neck Clock	1	5
Arm Hug	1	5
Arm Circles Micro/Mac	1 ea	5
Hurdle Seat Change	1	5
Leg Swing Supine Alternate	1	5
Prone Scorpion	1	5
Rocker Half w/ Inside Hurdle	1	5
Leg Swing Sagital	1	8
Quadriceps Stretch Walk	1	20
Inverted Toe Touch	1	20
A Skip	1	20
Backward A Skip	1	20
1/2 Speed Build-Up	1	20
Knee Hug	1	20
Straight Leg March	1	20
Butt Kicks	1	20
Butt Kick Alternating Legs	1	20
3/4 Speed Build-Up	1	20
Elbow to Instep	1	20
Scale Walk	1	15
Fast Leg R	1	20
Fast Leg L	1	20
3/4 Speed Build-Up	1	20
Lung Walking	1	20
Leg Cradle	1	20
Ankling	1	20
Step Over Run	1	20
Full Speed Build-Up	4	50

See handout for full warm-up





SPEED BARRIERS

- AVOID BAD STEREOTYPES
 - -ALWAYS STRESS FORM!
 - -EXCESSIVE SPEED TRAINING
 - TRYING TO MAINTAIN MAX LEVELS FOR LONG PERIODS OF TIME (>10 SEC)
- RUNNING SLOW
 - -PACE WORKOUTS





SPEED DEVELOPMENT BEFORE SPEED ENDURANCE

- BEGIN LATE FALL EARLY WINTER TRAINING
- Workouts with Speed Component
 - -BLOCK STARTS
 - —SHORT SPRINTS OVER 20 TO 40 M SOMETIMES 60
- AFTER NEW STEREOTYPES OF SPEED ARE PRODUCED WORK SPEED ENDURANCE (BEGINNING OF SEASON)





STRIDE LENGTH AND FREQUENCY

- How to Improve
 - -Must change Central Nervous
 System
 - OVER SPEED
 - RESISTANCE RUNS
 - CONTRAST TRAINING
 - -RESISTANCE -ASSISTANCE- NORMAL
 - » SLED, BUNGEE, FLAT
 - -IN AND OUTS







GENERATING WORKOUTS

- How to set up Sprint Workout Season
 - START END OF THE SEASON
 - PLAN EVERY DAY OF THE SEASON ALL AT ONCE
 - EVERYTHING MUST BE PERIODIZED
 - RUNNING
 - LIFTING
- Use K.I.S.S METHOD





WHAT IS PERIODIZATION

Periodization is simply dividing an athlete's training program into a number of periods of time, each with a specific training goal or goals. — William H. Freeman "Peak When it Counts"





WHAT IS THE PURPOSE?

To cause the Body to continually adapt to new conditions of overload and to allow the muscles to recover from the stress of training.





Don't do this!





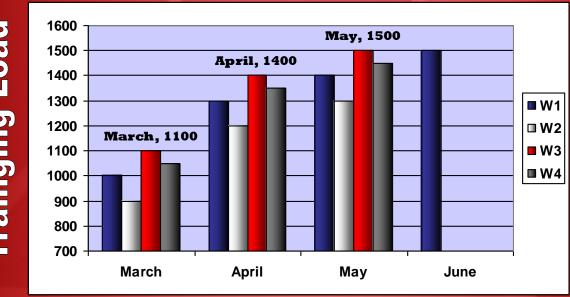
TRAINING LOAD

TRAINING LOAD FOR SPRINTERS IS NOT SIMPLY FOUND BY ADDING UP THE DISTANCE RUN. YOU MUST ALSO INCORPORATE THE INTENSITY OF THE WORKOUT AND THE AMOUNT OF REST

10 x 200 @ 30/2MIN REST = 2000M COMPARED TO

8 x 200 @ 27/ 45 SEC REST = 1600M





Month





		COMPONENT		Percent	Rest	basad	on bor			e per se	ssion
COMMON	LENGTH	COMPONENT AND DESCRIPTION	Energy	of	Interval	100	on bes	t race dis	Stance	400	+
TERMI-	OF	OF OBJECTIVE	System	Best	Between	Meters	.+'	Meters	+	Meters	_
NOLOGY	RUN	OF OBJECTIVE	System		e Reps / Sets	Min.	Max.		Max.	Min.	Max.
NOLOGI	>200m	AEROBIC CAPACITY [AC]	AEROBIC	<69%	<45" / <2"		3000	******			
EXTENSIVE	EGGIII	PLE TODIO GRIPTOTTI P. C.	ALIGORIO	-0070	40 / 2	17.00	0000	1000	0000	2.100	4000
TEMPO											7
	>100m		AEROBIC	70-79%	30"-90"/2-3"						
INTENSIVE	>80m	LACTACID CAPACITY [LAC]		80-89%	30"-5' / 3-10'	800	1800	800	2000	1000	2800
TEMPO		Anaerobic Capacity	AER./ANAER.				1				
SPEED	20-80m		ANAEROBIC	90-95%	3-5' / 6-8'	300					
			ALACTIC	95-100%	3-5' / 6-8'	300	500	300	600	300	600
		Alactacid Strength									
		ALACTIC					· '				Ì
	30-80m	SHORT SPEED END. [ASSE]		90-95%	1-2' / 5-7'	300					
		Anaerobic Power	ALACTIC	95-100%	2-3' / 7-10'	300	800	300	800	600	1200
		Alactacid Capacity									
		GLYCOLYTIC									,
SPEED	<80m	SHORT SPEED END. [GSSE]					1				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ENDURANCE		, ,	ANAEROBIC	90-95%	1' / 3-4'	300					
		Anaerobic Pow er	GLYCOLYTIC	95-100%	1' / 4'	300	800	300	800	600	1200
		Lactacid Capacity									
	80-150m		ANAEROBIC	90-95%	5-6'	300					
			GLYCOLYTIC	95-100%	6-10'	300	600	300	600	400	800
		Lactacid Strength									
SPECIAL		LONG									
ENDURANCE	150-300m		ANAEROBIC	90-95%	10-12'	600					
1		Anaerobic Power	GLYCOLYTIC	95-100%	12-15'	300	900	300	1000	300	1000
DEECHA!	222 222	LACTA OID DOLLIED. II A EI	1 + OTIO + OID	22.050/	45.00	200	200	200	4000	000	1220
SPECIAL	300-600m		LACTICACID	90-95%	15-20'	600					
ENDURANCE		Lactic Acid Tolerance	TOLERANCE	95-100%	FULL	300	600	300	600	300	900
Copy Winolder	4007			+		+-	 		-	+	+
Gary Winckler,	1987	<u>/</u>									4
1											IN THE PROPERTY OF





HIGH SCHOOL WEEKLY PLAN

1	MONDAY TUESDAY		WEDNESDAY	THURSDAY	FRIDAY		
2	Running: Extensive Tempu 70% Running: Speed 95%		Running: Intensive Temps #0%	Running: Speed Endurance 95%			
3		1 x 4 x 100 40	1 x 5 x 50 250	3 x 4 x 80 960	1 x 3 x 30 90	1 x 3 x 200 600	
4		1 x 2 x 150 30	2 x 5 x 20 200	1 x 1 x 0 0	1 x 1 x 100 100	1 x 0 x 0 0	
5		1 x 4 x 100 40	2 x 5 x 20 200	1 x 1 x 0 0	1 x 1 x 150 150	1 x 0 x 0 0	
6		1 x 2 x 150 30		1 x 2 x 0 0	1 x 1 x 100 100	1 x 2 x 0 0	
7	-	1 x 4 x 100 40		1 x 2 x 0 0	1 x 1 x 150 150	1 x 2 x 0 0	
8	2	1 x 0 x	1 x 1 x 0 0	1 x 2 x 0 0	1 x 1 x 100 100	1 x 2 x 0 0	
9	0	Daily Total 180		Daily Total 960	Daily Total 690	Daily Total 600	
10	9	Rest: 45 sec 2min between sets	Rest: Walk Back (1:00-2:00)**	Rest: 90 sec 5min between sets	Rest: 3 Min for 30's 5 Min 100's 150	Rest:	
11	5	Technical Work	Technical Work	Technical Work	Technical Work	Technical Work	
12			Work 30M out of blocks then		100= 12 150= 19		
			work sticks for 50M "A3 back for				
			2 of each set				
13							
15		On field Strength Conditioning	On field Strength Conditioning	On field Strength Conditioning	On field Strength Conditioning	On field Strength Conditioning	
16			Plyos		Plyos		
17			2 x hop both feet over line 30 sec		2 x hop both feet over line 30 sec		
18			2 x hop 1 foot over line 30 sec		2 x hop 1 foot over line 30 sec		
19			Hop for distance and Height both		Hop for distance and Height both		
20			Hop for distance and Height 1 leg		Hop for distance and Height 1 leg		
21			Lunges 1x 20M				
22			Bleachers		Bleachers		
23			1 leg sit and stand x 10		1 leg sit and stand x 10		
24			Alt Leg Step ups for height 2 x 8		Alt Leg Step ups for height 2 x 8		







PERCENTAGE CHART

200 Time	60%	65%	70%	75%	80%	85%	90%	95%
22.0	36.7	33.8	31.4	29.3	27.5	25.9	24.4	23.2
22.5	37.5	34.6	32.1	30.0	28.1	26.5	25.0	23.7
23.0	38.3	35.4	32.9	30.7	28.8	27.1	25.6	24.2
23.5	39.2	36.2	33.6	31.3	29.4	27.6	26.1	24.7
24.0	40.0	36.9	34.3	32.0	30.0	28.2	26.7	25.3
24.5	40.8	37.7	35.0	32.7	30.6	28.8	27.2	25.8
25.0	41.7	38.5	35.7	33.3	31.3	29.4	27.8	26.3
25.5	42.5	39.2	36.4	34.0	31.9	30.0	28.3	26.8
26.0	43.3	40.0	37.1	34.7	32.5	30.6	28.9	27.4
26.5	44.2	40.8	37.9	35.3	33.1	31.2	29.4	27.9
27.5	45.8	42.3	39.3	36.7	34.4	32.4	30.6	28.9
28.0	46.7	43.1	40.0	37.3	35.0	32.9	31.1	29.5
28.5	47.5	43.8	40.7	38.0	35.6	33.5	31.7	30.0
29.0	48.3	44.6	41.4	38.7	36.3	34.1	32.2	30.5
29.5	49.2	45.4	42.1	39.3	36.9	34.7	32.8	31.1
30.0	50.0	46.2	42.9	40.0	37.5	35.3	33.3	31.6
30.5	50.8	46.9	43.6	40.7	38.1	35.9	33.9	32.1

PROBLEMS WITH JUNIOR-HIGH SEASON

- TOO SHORT FOR MAJOR ADAPTATION
 - -21 Days for training affect
- LACK OF ACCESS TO FACILITIES
- DAYS AVAILABLE FOR PRACTICE
- ATHLETES AT VERY DIFFERENT LEVELS OF FITNESS





POSSIBLE SOLUTIONS

- KIDS CAN DO GENERAL ENDURANCE WORKOUTS BEFORE THE SEASON STARTS
- RUNNING CAN BE DONE ANYWHERE
- TRAINING CAN WORK ON A THREE DAY ROTATION
- WORKOUTS CAN BE EASILY ADAPTED FOR ALL ABILITY LEVELS





1	OSSIBTE 7	JNIOR HIGH	EASON
	MONDAY	WEDNESDAY	FRIDA
1	Intensive Tempo (AP)	Speed (S)	Extensive Tempo

Extensive Tempo

Extensive Tempo

Speed Endurance (GSSE)

Speed Endurance (GSSE)

Speed Endurance (GSSE)

Pre-Meet

Pre-Meet

Pre-Meet

Speed (S)

Speed (S)

Speed (S)/

Speed (S)/

Speed (S)/

Speed (S)/

Speed (S)/

Speed (S)/

Speed (AASE)

Speed (AASE)

Speed (AASE)

Speed Endurance (SE)

Speed Endurance (SE)

Speed Endurance (SE)

Intensive Tempo (AP)

Intensive Tempo (AP)

Intensive Tempo (LAC)

2

3

4

5

6

8

4 WEEK JUNIOR HIGH SEASON

	MONDAY	WEDNESDAY	FRIDAY
1	Intensive Tempo (LAC)	Speed (S)/ Speed (AASE)	Speed Endurance (GSSE)
2	Intensive Tempo (LAC)	Speed (S)/ Speed (AASE)	Speed Endurance (GSSE)
3	Intensive Tempo (LAC)	Speed (S)/ Speed Endurance (SE)	Pre-Meet
4	Intensive Tempo (LAC)	Speed (S)/ Speed Endurance (SE)	Pre-Meet





SAMPLE HIGH SCHOOL SEASONAL BREAKDOWN

	Ceneral Preparation	Special Preparation	Compelition	
MONDAY	INTENSIVE TEMPO	INTENSIVE TEMPO	INTENSIVE TEMPO	
TUESDAY	SPEED-/SHORT SPEED ENDURANCE	SPEED/ SHORT SPEED ENDURANCE	SPEED-SHORT SPEED ENDURANCE	
WEDNESDAY	EXTENSIVE TEMPO	EXTENSIVE TEMPO	EXTENSIVE TEMPO	
THURSDAY	SPEED- AEROBIC ALACTIC	SPEED-SHORT SPEED ENDURANCE ANAEROBIC	SPECIAL ENDURANCE I	
FRIDAY	SPEED ENDURANCE SHORT SPEED ENDURANCE	SPECIAL ENDURANCE I	WARM-UP LIGHT SPEED (STICKS)	
SATURDAY	RESTORATION	RESTORATION/ COMPETITION	RESTORATION/ COMPETITION	





COMPATIBLE WORKOUTS

- 1. ENDURANCE RUNS AND STRENGTH ENDURANCE
- 2. SPEED DEVELOPMENT RUNS AND SPEED STRENGTH DEVELOPMENT (JUMPING AND BOUNDING)
- 3. SPEED DEVELOPMENT RUNS AND EXPLOSIVE DYNAMIC STRENGTH DEVELOPMENTS EXERCISE (SHORT JUMPS)
- 4. SPEED DEVELOPMENT RUNS WITH MOVEMENT COORDINATION DEVELOPMENT EXERCISES (STARTS, STICKS, FORM DRILLS)





NON-COMPATIBLE

- 1. SPEED DEVELOPMENT WITH ANY TYPE OF ENDURANCE RUNS OVER 80M
- 2. SPEED DEVELOPMENT WITH STRENGTH ENDURANCE DEVELOPMENT EXERCISES.
- 3. SPEED DEVELOPMENT WITH STRENGTH DEVELOPMENT EXERCISE (MAXIMAL STRENGTH METHOD)
- 4. STRENGTH DEVELOPMENT (MAXIMAL STRENGTH METHOD) WITH ANY TYPE OF ENDURANCE RUNS.
- 5. EXERCISE COMPLEXES FOR THE DEVELOPMENT OF COORDINATION WITH STRENGTH DEVELOPMENT EXERCISES.





TIME TO PLAN

- TURN TO THE SAMPLE
 SEASONAL BREAKDOWN IN
 YOUR PACKET
- USE THE CLASSIFICATION OF ENERGY SYSTEM TRAINING CHART TO CREATE A PREIODIZED WORKOUT





PARTING WORDS

GOOD LUCK THIS SEASON! DON'T BE AFRAID TO TRY SOMETHING NEW.





TEMPO ENDURANCE

- -VERY IMPORTANT FOR 400M
- -HELPS INCREASE OXYGEN UPTAKE
- -RUNS DONE AT SLOWER PACE
- -EMPHASIS SHOULD BE QUANTITY AND NOT QUALITY
- -SHORT 2 TO 3 MINUTES

	Ceneral Preparation	Special Preparation	Competition
MONDAY	INTENSIVE TEMPO	INTENSIVE TEMPO	INTENSIVE TEMPO





SPEED ENDURANCE

 RUNS AT 90 TO 95% MAXIMUM EFFORTS





SAMPLE SEASONAL BREAKDOWN

	Ceneral Preparation	Special Preparation	Compelition
MONDAY	INTENSIVE TEMPO	INTENSIVE TEMPO	INTENSIVE TEMPO
TUESDAY	SPEED SHORT SPEED ENDURANCE	SPEED/ SHORT SPEED ENDURANCE	SPEED-SHORT SPEED ENDURANCE
WEDNESDAY	EXTENSIVE TEMPO	EXTENSIVE TEMPO	EXTENSIVE TEMPO
THURSDAY	SPEED- AEROBIC ALACTIC	SPEED-SHORT SPEED ENDURANCE ANAEROBIC	SPECIAL ENDURANCE I
FRIDAY	SPEED ENDURANCE SHORT SPEED ENDURANCE	SPECIAL ENDURANCE I	WARM-UP LIGHT SPEED (STICKS)
SATURDAY	RESTORATION	RESTORATION/ COMPETITION	RESTORATION/ COMPETITION





SAMPLE SEASONAL BREAKDOWN

	Ceneral Preparation	Special Preparation	Competition
MONDAY	INTENSIVE TEMPO	INTENSIVE TEMPO	INTENSIVE TEMPO
TUESDAY	SPEED-/SHORT SPEED ENDURANCE	SPEED/ SHORT SPEED ENDURANCE	SPEED-SHORT SPEED ENDURANCE
WEDNESDAY	EXTENSIVE TEMPO	EXTENSIVE TEMPO	EXTENSIVE TEMPO
THURSDAY	SPEED- AEROBIC ALACTIC	SPEED-SHORT SPEED ENDURANCE ANAEROBIC	SPECIAL ENDURANCE I
FRIDAY	SPEED ENDURANCE SHORT SPEED ENDURANCE	SPECIAL ENDURANCE I	WARM-UP LIGHT SPEED (STICKS)
SATURDAY	RESTORATION	RESTORATION/ COMPETITION	RESTORATION/ COMPETITION





	Length of Run	Component and Description of Objective	Percent of Best Performance	Rest Interval Between Reps/Set	Volume range per session			
Common Terminology					10	OM	20	OM
Extensive Tempo	>200M	AEROBIC CAPACITY (AC)	<69%	<45"/ <2'	MIN 1400	MAX 3000	MIN 1800	MAX 3000
Intensive Tempo	>100M >80	AEROBIC POWER (AP) LACTACID CAPACITY (LAC) Anaerobic Capacity	70-79% 80-89%	30"-90"/2-3' 30"-5'/3-10'	1400 800	1800 1800	1800 800	2400 2000
Speed	20-80M	SPEED (S) Anaerobic Power Alactacid Strength	90-95% 95-100%	3-5'/6-8' 3-5/6-8'	300 300	800 500	300 300	800 600
	30-80M	ALACTIC SHORT SPEED END. (ASSE) Anaerobic Power Alactacid Capacity	90-95% 95-100%	1-2'/5-7' 2-3/7-10'	300 300	800 800	300 300	800 800
Speed Endurance	<80M	Glycolytic SHORT SPEED END. Anaerobic Capacity Anaerobic Power	90-95% 95-100%	1'/3-4' 1'/4'	300 300	800 800	300 300	800 800
	80-150M	Lactacid Capacity SPEED ENDURANCE (SE) Anaerobic Power Lactacid Strength	90-95% 95-100%	5-6' 6-10'	300 300	900 600	300 300	1200 600