

Sprint Mechanic Principles

- Speed is simple: Stride length x Stride frequency
 Everything we do must be aimed at increasing one or both variables (create efficiency)
 Length = distance covered, and is not necessarily accomplished by a longer step
 Hit the ground harder (force into the ground)—travel further down the track
- Sprint Mechanic Drills
 direct correlation to sprinting movement patterns
 Practice makes Permanent: Let's say "Perfect practice makes perfect"- always

 - monitor & correct

 Everyday regardless of time, weather, workout, etc.

 Start slow until perfected, walking or marching: shorten distance

 - Start stow unit perfected, watking of marching: shorten distance
 Constant feedback

 Use visual demonstrations (good & bad)

 Simple/applicable verbal cues
 Drills must be completed in correct order...

 General to specific- proper learning progression for the body

 Slow to fast- still in process of warming up

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TEACH Great Sprinting Technique

- · Posture first!
- Angle of Hips (water bucket)
- · Cue knee, toe, heel up together
- Position to attack the ground from above
- · "Be intentional"
- A few drills great vs lots of drills average
- Extension reflex (Frans Bosch)
 - Hot coals or stumble forward, quick reflexes or reactions from both legs
- · Monitor ALL Drills!
- *Mechanics are only part of the equation
 Great mechanics, but don't go anywhere.....force issue/strength issue



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• Dribble Series • A Switch Series • Timing Drills • Straight Leg Scissors • Fast Leg (usually on speed days)

Dribble Series (Jonas Doo Doo)

The Why:

- 1. Upright, cyclical mechanics
- 2. Movement pattern closer to sprint mechanics
 - 1. Small-medium-big (which is very close to sprinting)
- 3. Shorter learning curve, more deliberate actions

Dribble Series

- 1. Dribble over the ankle
- 2. Dribble over the calf
- 3. Dribble over the knee
- 4. Dribble bleeds

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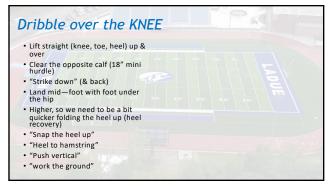
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Dribble over the ANKLE

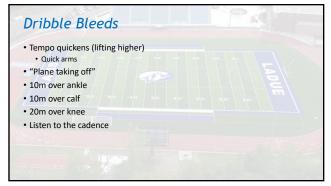
- Lift straight (knee, toe, heel) up & over
- Clear the opposite ankle (6" mini hurdle)
- "Strike down" (& back)
- Land mid—foot with foot under the hip
- As soon as foot leaves the ground, toe up—position to strike

Dribble over the CALF Lift straight (knee, toe, heel) up & over Clear the opposite calf (12" minin hurdle) "Strike down" (& back) Land mid—foot with foot under the hip Higher, so we need to be a bit quicker folding the heel up (heel recovery)

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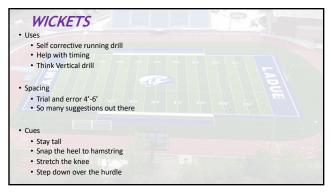


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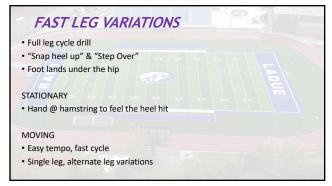


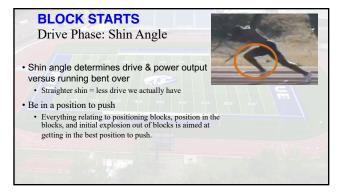




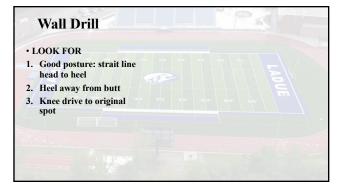


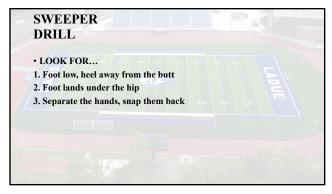
 Great drill to strengthen & stiffe hamstring 	
 Prepare them hamstring for top end speed work 	
• Variations • "Tempo"	
"Quickness" "distance"	
Combos	
What does each athlete need?	

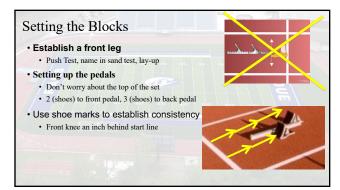


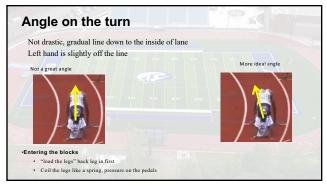


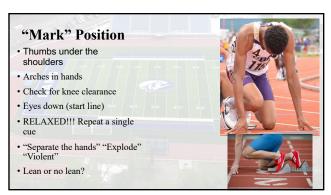


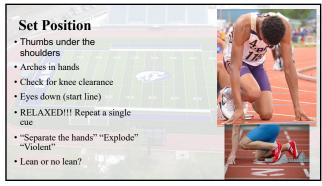






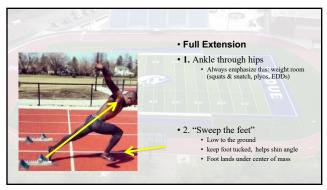












The Art of Coaching the Sprints

- Be prepared to make adjustment to your sessions on the fly
- Understand and the teach the athletes what running the event feels like, as opposed to what it's supposed to look like
- Give your athletes constant feed back during workouts
- Give motor response cue's during intervals and races
- EXPECT MORE FROM YOUR ATHLETES!
- DON'T BE AFRAID TO TRAIN FAST!
- KNOW YOUR ATHLETES!