



Tri-Phasic Training



Mike Meeteer

Middle School Physical Education Teacher - Strength & Conditioning Coach

Cell: (608) 692-7476

email: mike@foundationalfitness.com



John Ditter

High School Physical Education Teacher - Strength & Conditioning Coach

M.S. Exercise Physiologist

NSCA Certified Strength & Conditioning Coach

Cell: (608) 214-9898

email: john@foundationalfitness.com



Cindy Ditter

College Adjunct Professor USD AFFA Certified Personal Trainer

Cell: (608) 558-5009

email: cindy@foundationalfitness.com





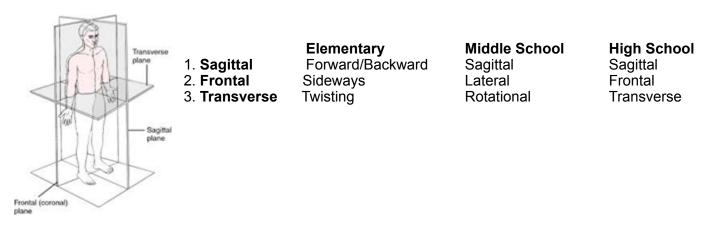
Functional Movement Planes/Pillars Training

Objective: Understanding functional training is the ability to execute high quality movement in all **Three Planes of Motion**

Foundational Strategies for Building Better Movers

- Train MOVEMENTS, not muscles (integration, not isolation)
- Build a menu of equipment-less movements, and master those FIRST
- Move in **ALL THREE** planes of motion,
 - Sagittal
 - Frontal
 - Transverse emphasize the TRANSVERSE plane
- Strive to perform movements with PRECISION

Planes of Movement Vocabulary



The 5 Pillars of Functional Movement:

- Rotation (striking, throwing, swinging an object etc. twisting action)
- Pushing (moving something away from you, horizontal & vertical vectors)
- Pulling (moving something closer to you, horizontal & vertical vectors)
- Raising & Lowering your center of mass (squatting, lunging, stepping, getting up and down off the floor)
- Locomotion (walking, running, crawling, climbing, swimming moving from point A to B)





3 Dimensional - Tri-Planer Warm Up

Functional warm up, working in all three planes (tri-planer) and incorporating both upper and lower body with movement in warm up

Sagittal (Straight Ahead)

- Ladder/Imaginary Ladder quick feet two in each box
- Hurdle Over/Under Forward
- Animal Crawl Forward
- Lunge Forward Arms Overhead with a backwards reach
- Skip Forward
- Repeat going backwards

Frontal (Lateral)

- Ladder/Imaginary Ladder Lateral two-in
- Hurdle Over/Under Lateral
- o Animal Crawl Lateral
- Lunge Lateral with a opposite hand/foot touch
- Skip Lateral
- o Repeat facing the other way

Transverse (Rotational)

- Ladder/Imaginary Ladder Cross-shuffle
- Hurdle Alt. Over/Under w/cross over step
- Animal Crawl Rotational/Cross Over
- o Lunge Crossover
- Crossover Skip
- Repeat going backwards

Tri-Phasic Muscle Contractions

- Eccentric Contraction (lengthening contraction)
- Concentric Contraction (shorten contraction)
- Isometric Contractions (no length change contraction)

Training Intensities

- Stability Focuses on gaining alignment and stability
- Strength Focuses on adding strength to the alignment and stability
- Power Focuses on adding explosive movement
- Integration Focuses on integrating lower and upper body





Tri-Phasic Training

Exercises	Isometric Stability Time under Tension	Eccentric Strength Controlled Lengthening	Concentric Power Explosive Contractions	Integration Connecting Upper & Lower Body
Push	½ Kneeling	Slow (3-5 sec)	Explosive	Integration Squat/
Train Station	Iso Holds	Descent	Alt. Fast Pressing	Press
Pull	Body Row	Slow (3-5 sec)	Assisted	Jump
Jungle Gym	Iso Holds	Descent	Pull Ups	Pull Ups
Core	Plank	Single Leg	Side Plank	Dying Bugs
Body Wgt.	Iso Holds	Drops	Hip Sway	
Legs	Lunge	Forward Lunge	Frog Jumps	Back Pedal
Circuit Trainer	Iso Holds	Under Tension	With Resistance	Quick Steps

Cool Down Lunge 3D Matrix - Movement Sticks

Sagittal Straight Ahead (Forward) – (Backward)

- Sagittal Extension
- Frontal Lean
- Transverse Rotation

Frontal Lateral (Right) - (Left)

- Sagittal Extension
- Frontal Lean
- Transverse Rotation

Transverse Rotational (Right) – (Left)

- Sagittal Flexion/Extension
- Frontal Lean
- Transverse Rotational

Movement Sticks

- A great tool for MOBILITY development
- Partner strength movements
- Push-up and Body Row form regulator