The Basics of Strength Training for Rowing

Why, What, How, and When?

Will Ruth

Green Racing Project Strength Coach

BS Kinesiology | MA Sport Coaching | NSCA-CSCS

Framing Concepts

- 1. Move better \rightarrow Get stronger \rightarrow Lift faster \rightarrow Strain harder
 - a. Efficiency beats output
 - b. Technique needs to be precise and repeatable

- 2. Strength training is not the sport itself
 - a. Efficiency paradox: Lose-lose
 - b. Sport competition \rightarrow Sport training \rightarrow Sport drills \rightarrow Erg \rightarrow Strength training

Key Questions

What does the sport overtrain?

What does the sport require?

What does the sport neglect or undertrain?

Good strength training should...



Avoid or minimize impact





Address to fill this gap

Strength Training for Sport + Beyond

- 1. Improve performance: Enhance physical capacity to be just beyond the needs of the sport.
- 2. Reduce risk of injury: Training movements and muscles that the sport training neglects.

#1 and #2 are mutually reinforcing!

3. Be more than the sport: Physically active for life.

WHAT we do

Usually bodyweight, free-weight, resistance band, suspension trainer, rather than machine-based strength training

Move the body through space!

- 1. Squat
- 2. Hinge
- 3. Push
- 4. Pull
- 5. "Other" (Shoulder, Hip, Core, and Plyometrics)

Meet the Exercises: 2-Leg Squat



Bodyweight Goblet 2DB/KB Front Squat

Meet the Exercises: 1-Leg Squat











Lunge w/support

Lunge

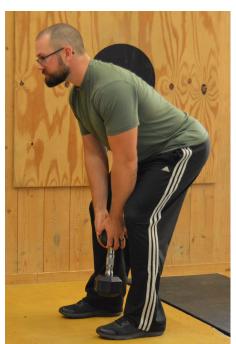
Lunge w/load

RFESS

RFESS w/load

Meet the Exercises: Hinge (part 1)









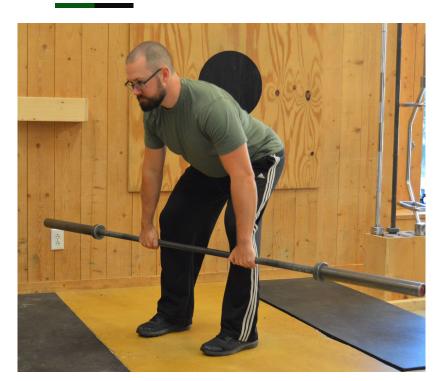
PVC Pipe

1DB/KB

2DB/KB

KB Swing

Meet the Exercises: Hinge (part 2)





Romanian Deadlift

Hex Bar Deadlift

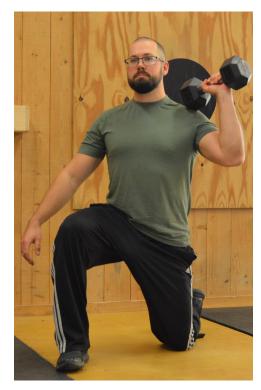


Meet the Exercises: Push (horizontal)





Meet the Exercises: Push (vertical)

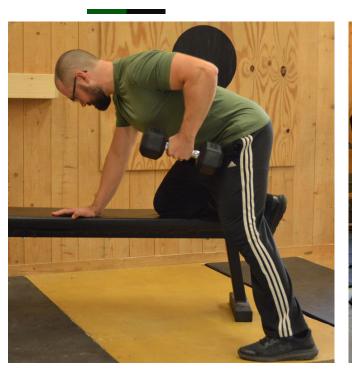


½-Kneeling Press



1-Arm Press

Meet the Exercises: Pull (horizontal)



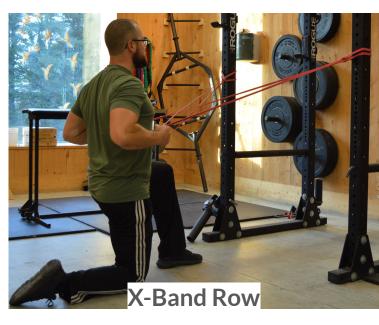
1-Arm DB Row



Bodyweight Row (high)

Bodyweight Row (low)





Meet the Exercises: Pull (vertical)



Chin-Up



Band-Assisted Chin-Up

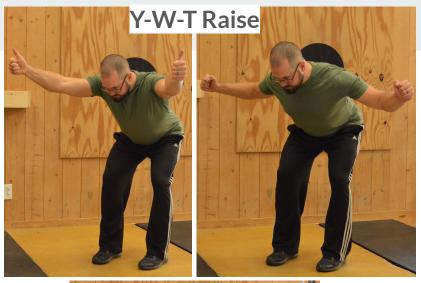
Meet the Exercises: Shoulder





Facepull

Pullapart





Meet the Exercises: Hip Abduct







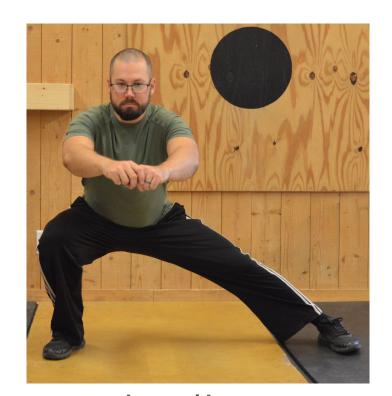
Mini Band Walk

Meet the Exercises: Hip Adduct





Copenhagen Plank



Lateral Lunge

Meet the Exercises: Core



Seated Rockback



Side Plank



Ring/TRX Exercises

Meet the Exercises: Plyometric



2-Leg Vert/Broad



1-Leg Vert/Broad



Backwards Overhead



Forwards Overhead



Slam

HOW we do the exercises

- 1. Technique
- 2. Tempo
- 3. Range-of-motion

•••

4. Load

<u>Tempo</u>

Default setting = 2:1

- Increase muscular tension
- Decrease loading
- More stimulus with less wear-and-tear

Closer to racing = 2:X

- Power up the lifting phase with the sport demands

Range-of-Motion

Default setting = Full (or as much with good technique)

- Increase muscular tension
- Decrease loading
- More stimulus with less wear-and-tear

Closer to racing = Still full

Rowing is always long-ROM

Load

Just one way to add challenge to an exercise

Generally be 2-3 reps away from technical failure

- Technical: No more weight/reps possible with good technique
- Muscular: No more weight/reps possible with ANY technique

Good movement transfers to the sport

Adding load for the sake of load = lose/lose

WHEN we strength train

Ideally year-round (periodization = changing emphasis)

Ideally 2-3 times per week (45-60')

Ideally 6+ hours away from aerobic/sport training

- **Plan A:** AM/PM or different days
- **Plan B:** Strength before sport (with a few adjustments)
- **Plan C:** Sport before strength (with more adjustments)

Two-Phase Model (Junior/Master)

Off-Season

Reduced sport training

Increased strength/x-train

- + volume
- + frequency
- intensity
- + variety (specificity)

In-Season

Increased sport training

Maintenance with upside

- - volume
- frequency
- + intensity
- + specificity (variety)



Stop strength training in-season? Strongest at the start, weakest at the end.

Three-Phase Model (Club)

Off-Season

Reduced sport training

Increased strength/x

- + volume
- + frequency
- intensity
- + variety (specificity)

Pre-Season (Transition)

Increasing sport training

Decreasing strength/x

- volume
- = frequency
- + intensity
- variety → specificity

In-Season

Increased sport training

Strength at maintenance (+)

- volume
- frequency
- = intensity
 - + specificity (variety)

Start Starting!

30-30-for-30 system





Image: OTPBooks and Dan John



30-30-for-30: 5x6, 6x5, 3x10, 2x15...?

5 rounds of 6 exercises

- 1. Pushup (hands elevated)
- 2. Bodyweight Row
- 3. Hinge (bodyweight --> 1DB or 1KB)
- 4. Core
- 5. Squat (bodyweight --> goblet)
- 6. Band Pullapart

REPEAT 5 TIMES (30 mins total)

5 rounds of 6 exercises (Upper + Hinge)

Full-Body Warmup (See "Warmup" page)

- 1. Pushup (hands elevated)
- 2. Bodyweight Row
- 3. Romanian DL (BB) or Nordic Hamstring Curl
- 4. Core
- 5. RFESS (left)
- 6. RFESS (right)

REPEAT 5 TIMES (30 mins total)

6 rounds of 5 exercises

- 1. Squat (bodyweight --> goblet)
- 2. Bodyweight Row
- 3. Standing Lunge/RFESS (left)
- 4. Standing Lunge/RFESS (right)
- 5. Pushup (hands elevated)

REPEAT 6 TIMES (30 mins total)

6 rounds of 5 exercises (Leg Focus)

Full-Body Warmup (See "Warmup" page)

- 1. Goblet Squat (paused/regular)
- 2. Bodyweight Row or Chin-Up Variation
- 3. RFESS (left)
- 4. RFESS (right)
- 5. Core

REPEAT 6 TIMES (30 mins total)

3 rounds of 10 exercises

- 1. Incline Bench Press (DB/BB)
- 2. Glute Marching
- 3. Hinge (bodyweight --> 1DB or 1KB)
- 4. Bodyweight Row
- 5. Standing/Reverse Lunge or RFESS (left)
- 6. Standing/Reverse Lunge or RFESS (right)
- 7. Y-Raise
- 8. Core
- 9. W-Raise
- 10. Core

REPEAT 3 TIMES (30 mins total)



Training Session Template (2x/wk)

Day 1		Day 2
Full-Body Warmup	~10 mins to prepare	Full-Body Warmup
A1. Plyometric (Jump/Throw)	\leftarrow Power/coordination (3-6 x 2-4 reps) \rightarrow	A1. Plyometric (Jump/Throw)
A2. Squat	← Power/strength (3-5 x 3-8 reps) →	A2. Hinge
B1. Horizontal Push (eg. pushup)	←Muscle/balance (3-4 x 8-15 reps)→	B1. Overhead Press (eg. 1-arm DB)
B2. Horizontal Pull (eg. row)		B2. Vertical Pull (eg. chin-up)
B3. Hinge (eg. Romanian deadlift)		B3. Single-Leg Squat (lunge/RFESS)
C1. Hip Abduct/Adduct	\leftarrow Fill sport gaps (2-4 x 10-20 reps) \rightarrow	C1. Hip Abduct/Adduct
C2. Shoulder		C2. Shoulder
C3. Core		C3. Core

More About Strength Training

2:30pm: "Advanced Rowing Strength Training"

Email: rowingstronger@proton.me

www.RowingStronger.com

Youtube: @rowingstronger

The "Rowing Stronger" book (\$30)

