## NASM Personal Trainer

Exam Study Guide

By Sorta Healthy (We don't work for NASM)





## Steps To Pass Your Exam

Skim Chapters: 1, 2, 5, 6, 8, 10, 16, 17, 18, 19, 22, 23 Read Chapters: 3, 4, 7, 9, 11, 12, 13, 14, 15, 20, 21

**2** Review this part 1 video, and the part 2 video a few times each.

**3** Review the fitness pocket prep app (link below)

**4** Consider buying our trivia study quiz video (link below)

## OPT MODEL CREATED BY NASM



#### **Stabilization Endurance**

- Developing proper movement patterns: squat, push, pull, press, hip hinge, and multiplanar movements - Correcting muscle imbalances and helping with stabilization

- Promoting client confidence and adherence to exercise

**Stabilization Endurance** (Other things to know) - Sets: 1-3 sets are required for resistance training, core, balance and optional things. - Reps: 12-20 for resistance, core, and balance exercises (50-70% int.) -Tempo: 4,2,1,1 for required exercises



**Stabilization Endurance** (Other things to know) **Rest: 0-90's in this phase** - 1-3 sets of SMR and static stretching are required in the warm-up and cool down. - Static stretching is prominent here to help with muscular imbalances.

#### **Strength Endurance**

- Strength move immediately followed by stabilization move with similar motions - Things can be progressed by increasing proprioceptive demand, volume, intensity or shorter breaks - First of three strength phases

Strength Endurance (Other things to know) Sets: 2-4 for core, balance, resistance training, and some optional things. **Reps: 8-12 for resistance, core, and** balance exercises (75-80% int.) - 2,0,2 tempo for strength exs. - 4,2,1,1 tempo for stability exs.

Strength Endurance (Other things to know) - Rest: 0-60's in this phase - Like in all phases, there is still static stretching and SMR in the cool down. - There is active stretching in the warm-up (1 to 2 sec. hold, 5-10 reps)

## push-up right after, what phase of training are they most likely in? A: Strength Endurance

**Muscular** Development Sets: 3-6 sets of resistance training 2-4 for core and balance **Reps: 6-12 for resistance training exercises and** 8-12 for core and balance exercises (75-80% int.) Tempo: 2,0,2 is used for required moves - There is active stretching in the warm-up (1 to 2 sec. hold, 5-10 reps)

## Muscular Development (Other things to know) - 0-3 mins rest for resistance training - 0-60's rest for core, balance, plyo's, (Optional) SAQ'S (optional)

**Muscular Development** (Other things to know) - 12-20 reps is allowed for muscular development if more muscular endurance is desired - Rest is up to 3 mins for resistance training because that's how long it takes to recover close to 100% ATP

#### <u>Maximal Strength</u>

#### -This is an optional phase of the **OPT model** - This is an advanced form of training and only recommended for experienced lifters and exercisers who have worked their way up to this phase of the model





#### (Other things to know) Sets: 4-6 for resistance training moves and 2-4 for core and balance **Reps: 1-5 for resistance training (85-100% int.) and 8-12 for core and balance** Tempo: Explosive or as fast as possible with good form

Maximal Strength (Other things to know) **Rest: 2-4 mins for resistance** training 0-60's for core, balance - Greater than six sets resistance training sets for advanced clients is ok





- Superset strength focused move (heavy 1-5 reps) with a power focused move (lighter 8-10 reps) - The goal in this phase is to improve a clients strength and their explosive speed/force.

**Power Training** (Other things to know) **Sets: 3-5 for resistance training Reps: 1-5 for resistance training** (85-100%1RM) and 8-10 for power (30-45%)**Tempo: Explosive or as fast as** possible with good form



**Power Training** (Other things to know) Rest: 1-2 mins between pairs 3-5 mins between circuits - There is dynamic stretching in the warm-up (only standard in power) - Core and balance moves are optional in this phase (only in power)

# If you have a client doing heavy squats followed by explosive

jump squats, what phase are

they most likely in?

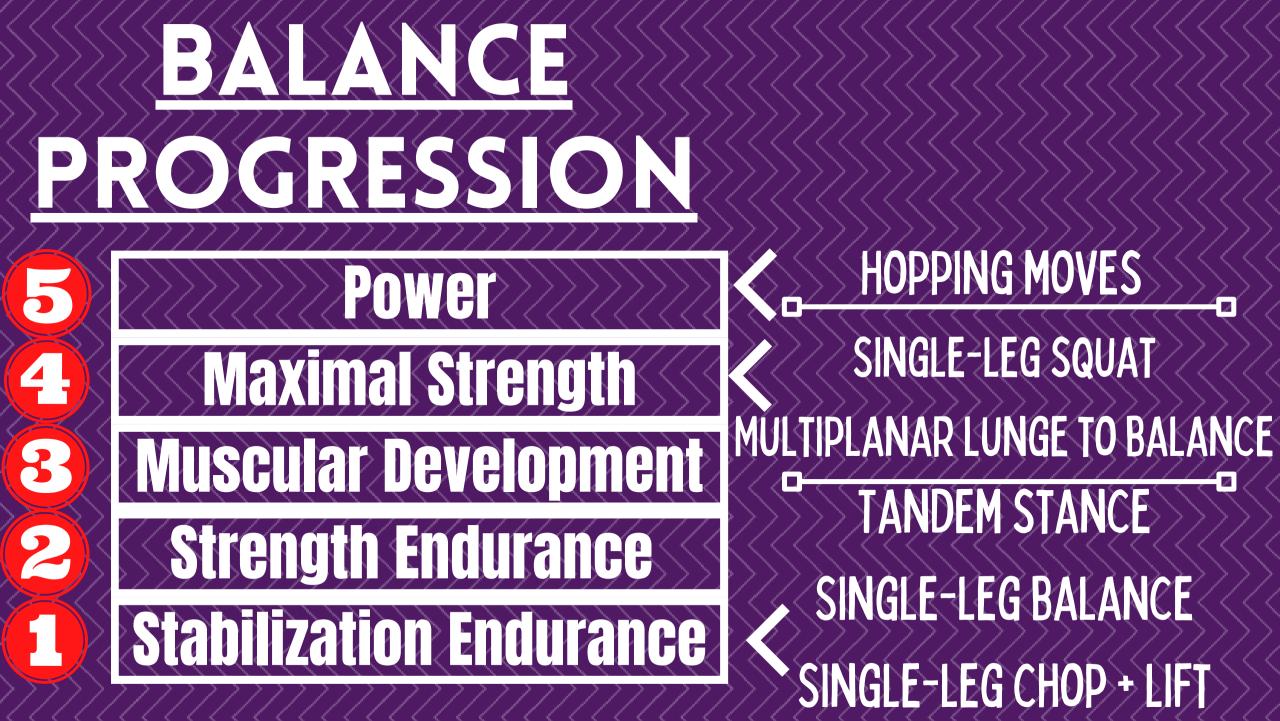
A: Power Training



**OPT Model Patterns** - All warm-up's for phases include SMR for 1-3 body parts (hold 30's on tender areas) - All warm-ups include stretching (Static>Active>Dynamic) - The cool-downs are the same - The optional moves (SAQ's, plyos, core, etc. follow a predictable path (see next pages for examples)







#### PROPRIOCEPTIVELY CHALLENGING SCALE

#### Less Challenging

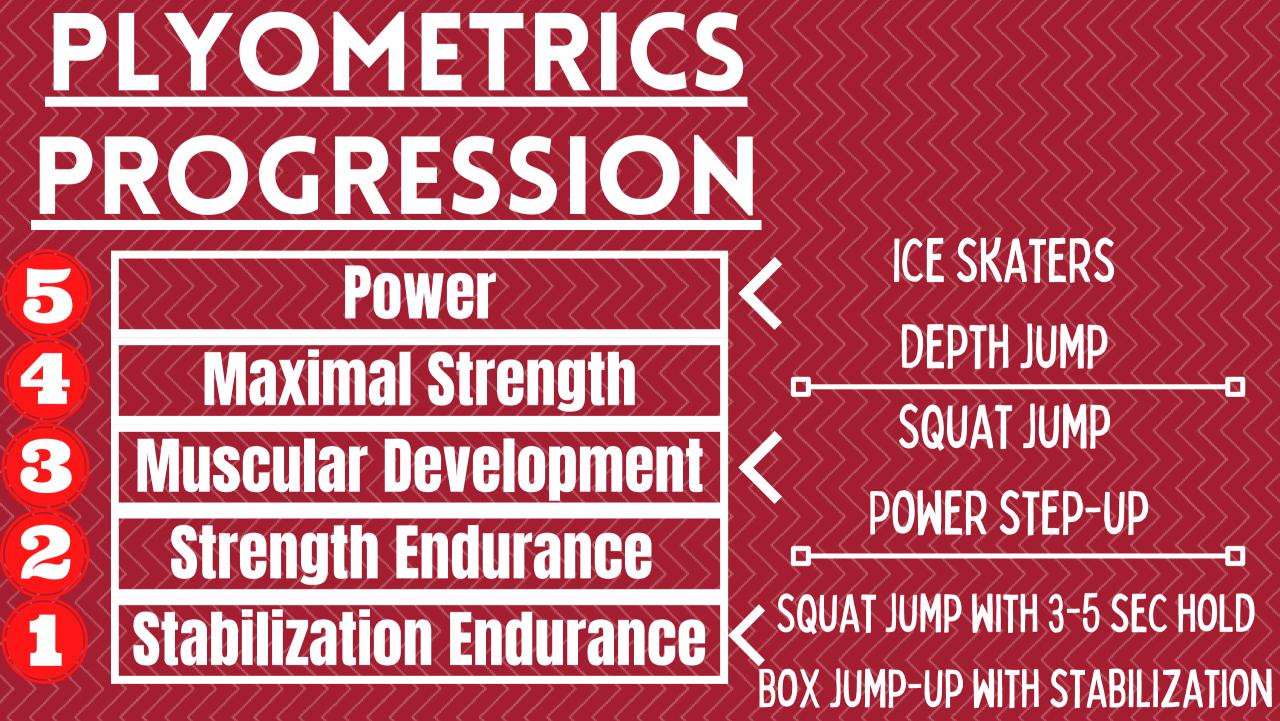
#### More Challenging



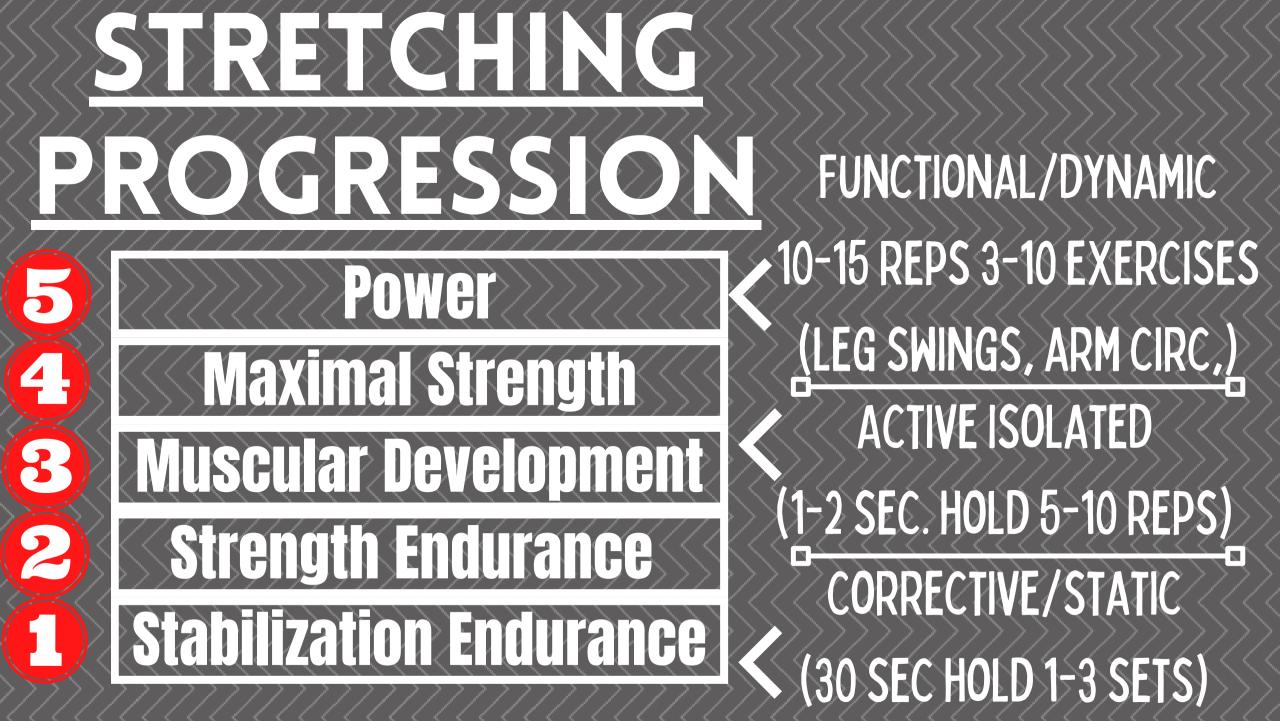
## ALSO...

#### BILATERAL UNILATERAL BILATERAL UNILATERAL STABLE STABLE UNSTABLE UNSTABLE









## Avoid foam rolling with clients who have:

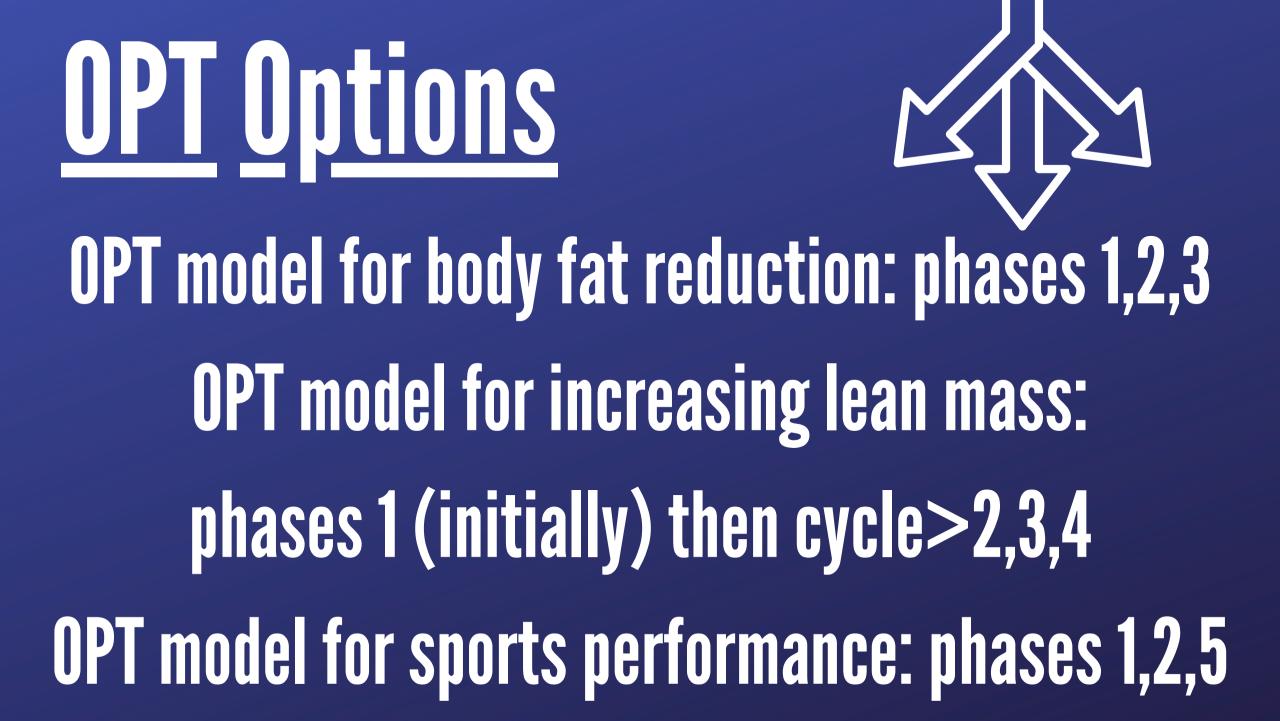
## cancer, osteoporosis, recent surgery,

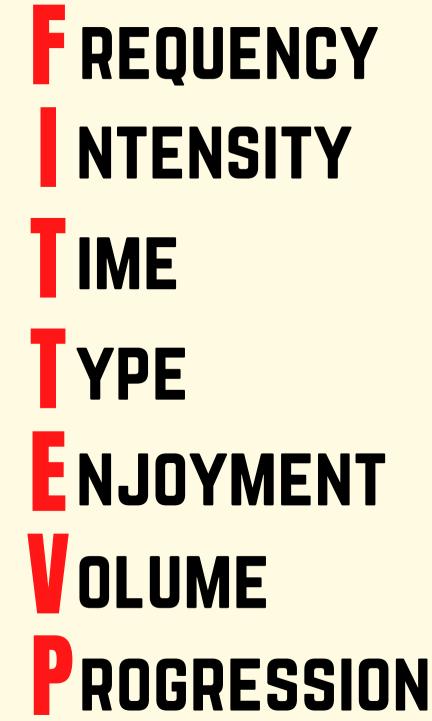
### bleeding disorders, uncontrolled

## hypertension, open wounds, etc.



The moral of the story here is that memorizing all of the parts of the OPT model isn't necessary. Memorize some of the key bits we went over. Review the tables listed (Ex. 21-14). Learn the patterns, and be ready to answer multiple choice questions.







## GENERAL AEROBIC ACTIVITY RECOMMENDATIONS

PEOPLE SHOULD GET 150 MINUTES OF MODERATE INTENSITY CARDIO FIVE DAYS A WEEK.

#### OR THEY SHOULD GET 75 MINUTES OF VIGOROUS INTENSITY CARDIO THREE DAYS A WEEK.





**Periodization- A systematic** planning of physical training. The aim is to reach the best possible performance for a specific time frame or event. You achieve this by changing up exercise variables when appropriate.

| July |    |    |    |    |    |    |  |
|------|----|----|----|----|----|----|--|
| Su   | Мо | Tu | We | Th | Fr | Sa |  |
|      | 1  | 2  | 3  | 4  | 5  | 6  |  |
| 7    | 8  | 9  | 10 | 11 | 12 | 13 |  |
| 14   | 15 | 16 | 17 | 18 | 19 | 20 |  |
| 21   | 22 | 23 | 24 | 25 | 26 | 27 |  |
| 28   | 29 | 30 | 31 |    |    |    |  |
|      |    |    |    |    |    |    |  |

Microcycle: A week long block of training Mesocycle: A month long block of training (OPT phases 4-6 weeks) Macrocycle: A year long block of training

**Linear Periodization** A traditional method of program design that aims to gradually increase the intensity of the training load while simultaneously decreasing volume over a set period of time.

**Undulating Periodization** A programming scheme, also known as nonlinear periodization, that uses changes in volume. intensity, and exercise selection to provide loading differences on a daily or weekly basis.

## **Over Training** Excessive frequency, volume, or intensity of training, resulting in reduction of performance, which is also caused by a lack of proper rest and recovery.





**ATP or Adenosine Triphosphate** molecules provide the body with energy. Breaking these <u>ATP</u> molecules down is how your body powers itself. Try to understand the chart on the next page.