

Learning A New Skill

Three Stages of learning a New Skill:

- **1. Mental Stage** The stage of mental understanding of the skill (Conscious Incompetence)
- 2. **Practice Stage** The stage of being able to do the skill but still needing conscious thought. (Conscious Competence)
- **3.** Automatic Stage The stage of developing automatic skill little or no conscious thought whilst performing the skill. (Unconscious Competence)

Conditioning for Karate

• Elements of Fitness & Performance:

Physical	Mental
1) Strength	1) Attitude
2) Speed / Power	2)Motivation
3) Agility	3) Goals
4) Balance	4)People Skills
5) Flexibility	5) + Self-Talk & Mental Imagery
6) Endurance	6) Manage Anxiety/Emotions
7) Co-ordination	7) Concentration

Speed Training

Speed of Technique:

7)

- **1) Sound Basic Techniques** correct biomechanics. center out techniques not end to end techniques.
- 2) Strength and Endurance resistance training: body weight, elastic bands, weights, sets with long recovery moving to shorter recovery periods.
- **3) Plyometrics** efficient, faster and stronger muscle contractions.
- **4) Aggressive Mental Attitude** strong desire to make high speed movements. Anticipation.
- **5)** Sets of Techniques single, multiples number or time.
- 6) **Over Speed Training** gravity punching down, downhill stepping, elastic bands, release training.
 - Autonomous Techniques Repetition until it is automatic.

Speed Training

• <u>Reaction speed to catch a dynamic target:</u>

Mental Attitude – Strong desire to catch the target yet relaxed mentally.
 Physical Readiness – On balls of feet and relaxed physical state.
 Minimize Choices of Response – The fewer the responses the faster the response.
 Stimulus must be Recognizable

Types of Karate Classes

Karate for Self-Defense – Original Karate

 Karate for Education – Mental Stimulation + Character Development

Karate for Sport – Controlled by the Rules

• Karate for Energy – Ki and Autonomous Learning

Karate for Health – Therapeutic Karate

Karate Class Plan

• 10 min Warm Up

- 15 min Kihon Plyometrics
- 25 min Kata Method / Plyometrics
- 25 min Kumite Progressions
- 10 min Warm Down
- Form \rightarrow Function
- Ind. \rightarrow Partner \rightarrow Group Work \rightarrow Test
- Principle of Progressive Challenge
- Principle of Karate for All (Ability/Disability)
- Goal Autonomous Phase of Learning Skills

Principle of Karate For All

Individual Training in a GENERAL CLASS

• Ability in a General Class – TURN UP CHALLENGE

 Disability – find out The Point of Max. Ability + Alternate Techniques. (Apply Art of Instructing)

WARM UP - Modern Concepts

• WARM UP - Three Phases:

1. Light Aerobic Work – Raise body Temp. by 1° C

2. Dynamic Stretching – Remove Muscle Stiffness

3. Karate Specific Activity - Kihon

WARM UP - Benefits

• A proper warm up will enhance performance and reduce injuries, because it will result in:

Increased heart rate & respiratory rate for exercise. Blood vessels in muscles dilate increasing blood flow, metabolism and muscle temperature.

Increased oxygen delivery to muscles because haemoglobin releases oxygen more rapidly at higher muscle temperatures.

Increased efficiency of movement because of lowered viscosity in muscles.

Reduce stiffness of muscles.

1)

3)

4)

5)

6)

Increased temperature also enhances nerve transmission and muscle contraction & relaxation as well as increase motor unit recruitment required for maximal effort.

What is Plyometrics?

• **Plyometrics** is the use of a **pre-contraction stretch** of a muscle to **enhance** the speed and power of contraction of that muscle.

• Types of Muscle Activity in Plyometrics:
1) Conscious Contraction - normal
2) Elastic Recoil - pre-contraction stretch
3) Reflex Contraction - pre-contraction stretch

Plyometrics in Karate

• Plyometrics can be applied to Kihon:

- Legs Load the support leg, Small angle between thigh and calf.
- 2) Hips Small opposite rotation of the hip (Double Rotation)



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Shoulders – Bow and arrow effect

Arms – Pull back before blocking, punching

Kata

• A Method in the Madness:

• 1) Selection of Kata • 2) Etiquette • 3) Kata Kihon • 4) Bunkai • 5) Sequence - Linkages • 6) Kime • 7) Performance

Kumite

• Kumite (Meeting of Hands)

Method Inherited System: (M. Nakayama)
Sanbon/Gohon Kumite
Ippon Kumite
Jiyu Ippon Kumite
Jiyu Kumite

What are the gaps to improve the challenge / Reduce Incompetence. Use Progression of Drills / Strategies.

Cool Down – Modern Concepts

• **COOL DOWN** – Three Phases:

1) Light Aerobic Activity – Reduce HR, BP, Remove Waste Products.

2) Static Stretching – hold for 10 -30 sec. = Flexibility

3) Breathing Exercise & Meditation – Restore Physical and Mental Calm.

Cool Down - Benefits

• An appropriate cool down will:

Aid in the removal of waste products from muscles
 Reduce Delayed Onset Muscle Soreness
 Improves Flexibility
 Reduces the heart & respiratory rate to return to its resting levels
 Reduce the chances of dizziness or fainting due to a slow cooling of the muscles.

Thank You!

