















Increase the intensity of your water workout!

WATERGYM® STROKE ANALYSIS CHART

This chart is an intensity-increasing tool created for those needing a more challenging workout. It identifies the qualitative ways that our arms and legs move or "stroke" through the water and how to increase STROKE intensity.

Every movement or STROKE is an opportunity for calorie burning and improving one or more aspects of physical fitness;

• Muscular Strength

• Muscular Endurance

• Flexibility

• Cardiorespiratory Endurance

• Body Composition

STROKE QUALITIES	INCREASE INTENSITY BY:	FITNESS EMPHASIS	COMMON MISTAKES
SPEED, POWER & FORCE Identify how much speed, power and force to exert	Exerting more speed, power & force in a variety of ways including intervals and speed drills	Muscular Strength Muscular Endurance Cardiorespiratory Endurance Body Composition / Calorie Burning	 Exerting more speed, power & force but shortening levers to minimize drag surfaces Exerting more speed, power & force but without proper form & technique, increasing risk of injury No pre-determined intention, diminishing results
SURFACE AREA Identify where the "drag surfaces" are on limbs	Feeling the resistance of the water on the maximum surface area of limbs	Muscular Strength Muscular Endurance Cardiorespiratory Endurance Body Composition / Calorie Burning	 Not utilizing the maximum surface area possible throughout entire stroke Slicing versus drag-creating (form drag) Not feeling the relationship between the different surface areas of the limbs
ROM Identify range of motion of limbs	Driving limbs on a clear, concise, pre-determined path, using entire surface area during complete ROM	Muscular Strength Flexibility	Not moving entire limb through full ROMNo awareness of posterior ROM
LEVER Identify if lever is fixed or dynamic	Maintaining integrity of lever throughout entire stroke whether fixed or dynamic	Muscular Strength Muscular Endurance Flexibility	 Angle of lever shortened, minimizing drag surfaces Integrity of lever not maintained throughout entire stroke
DIRECTION Identify which direction to move limbs	Driving limbs on a clear, concise, pre- determined path, focusing and feeling specific muscle groups	Muscular Strength Muscular Endurance Flexibility	Path direction changes during strokePath direction unclear and sloppyIgnoring beginning or end of stroke
DURATION Identify how long to perform each exercise	Performing each exercise for an appropriate duration for desired results	Muscular Strength Cardiorespiratory Endurance Body Composition / Calorie Burning	 No pre-determined duration, resulting in performing fewer repetitions than needed to be effective Duration too long, increasing possible risk of injury & improper form & technique

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