

A PERSONAL JOURNEY

second edition

Joe D. Bell, Matthew J. Garver, Libby E. McCurley Aaron L. Banks, and Dale P. Mood



Brief Contents

















CHAPTER 1 Well-being and You:

An Introduction to Key Concepts and Yourself 1

CHAPTER 2 Mapping the Journey Behavior Change and

Goal Setting 24

CHAPTER 3 Heart of the Journey Cardiorespiratory Fitness 46 CHAPTER 4 Strength for the Journey Muscular Health 70

CHAPTER 5 Flexibility on the Journey Stretching Your Horizons 96

CHAPTER 6 Fuel for the Journey Nutrition and Metabolism 116

CHAPTER 7 Packing Lite Body Composition and Weight Control 150

CHAPTER 8 Golf Driving for Fun and Fitness 176

CHAPTER 9 Hiking and Backpacking Outdoor Adventure 200



IV Brief Contents

CHAPTER 10

Jogging

Running for Fitness 226

CHAPTER 11

Racquetball Handball, and Paddleball

Bouncing off the Walls 256

CHAPTER 12 **Swimming**

Fitness in the Water 284

CHAPTER 13 **Tennis**

Acing Fitness for the Rest of

Your Life 314

CHAPTER 14

Walking for Fitness

Do More of What You Already

Do Everyday 346

CHAPTER 15

Weight Training

Build Your Mind and

Body **366**

CHAPTER 16

Yoga

Find Your Center 394

CHAPTER 17

Aerobic Dance

Exercise in a Group 416

CHAPTER 18

Basketball

Take the Shot 436

CHAPTER 19

Soccer

Go After Your Goals 464

CHAPTER 20

Volleyball

Be Fit with Friends 486

CHAPTER 21

Disc Sports

Fling It for Fun and

Fitness 504









1. Well-being and You:

FIND YOUR PATH TO WELL-BEING

How Physically Active Are You?

Do You Make Time to Exercise?

What is Your Confidence Level?

How Motivated Are You to Exercise?

Your Profile and Key Well-being Concepts

IDENTIFY YOUR DIMENSIONS OF WELL-BEING

Well-being Requires Intentional Action

Well-being Requires Time

Catch Yourself Being You

CONSIDER HOW YOUR PERSPECTIVE, ATTITUDES, AND LIFESTYLE IMPACT WELL-BEING

Mental Health Affects Well-being

Lifestyle Choices Affect Well-being

Physical Activity and Food Choices
Weight Control and Body Composition

Sleep Quality

Stress Management

Drug, Alcohol, and Tobacco Abuse Economic/Financial Stability

Social Determinants of Well-being

LINK LIFESTYLE TO RISK OF DISEASE

The Leading Causes of Death

Cardiovascular Disease

Heart Failure

Coronary Heart Disease (CHD)

Stroke

Hypertension

Cancer

Lung Cancer

Colorectal Cancer

Breast Cancer

Prostate Cancer

Testicular Cancer

Skin Cancer

1

Diabetes Mellitus

Arthritis

Asthma

Chronic Pain

Osteoporosis

Depression

LIFESTYLE MEDICINE: USE IT AND LIVE IT

THE HEALTHY PEOPLE INITIATIVE

REFERENCES

2. Mapping the Journey

INDICATIONS OF YOUR JOURNEY'S DIRECTION

THE MANY DESTINATIONS OF FITNESS: DIMENSIONS OF WELLNESS

Physical Wellness: Lower Your Risk

to Chronic Disease

Mental and Emotional Wellness:

Celebrate Your Self-Image

Intellectual Wellness: Improve Your

Academic Performance

Occupational Wellness: Be More

Successful on the Job

Social Wellness: Play with Others

Environmental Wellness: Enjoy

the World Around

Spiritual Wellness: Find Your Inner Peace

WELLNESS BEHAVIOR ASSESSMENTS

MOTIVES, MOTIVATORS, AND BARRIERS

TO CHANGE

The Power of Identifying Your Motives

Motivators for Behavior Change

Amotivation

Extrinsic Motivation

Intrinsic Motivation

Barriers to Change

SELF-REGULATORY TOOLS: SELF-MONITORING

AND GOAL SETTING





24

XII Contents **Self-Monitoring** 4. Strength for the Journey 70 **Goal Setting** SO YOU THINK YOU KNOW MUSCLE? **Using SMART Goals** JOINT HEALTH MAKES THE JOURNEY POSSIBLE **BRINGING IT ALL TOGETHER: SUMMARY** MUSCLE PHYSIOLOGY: WHAT IS GOING **OF SELF-REGULATORY TOOLS** ON INSIDE? **GLOSSARY** Whole Muscle, Fascicles, and **Muscle Fibers REFERENCES** How the Nerve Controls the Muscle 3. Heart of the Journey 46 The Neuromuscular Junction and THE ROAD TO A HEALTHY HEART the Neurotransmitter Improve Your Physical Abilities Excitation Is "Coupled" with Contraction Reduce Your Risk to Contraction: Actin, Myosin, and Cardiovascular Diseases the Sarcomere Manage Your Weight Contraction: The Amazing Ability to **Recruit Motor Units** Feel Good Getting Stronger but Not Getting Bigger: WHAT IS GOING ON INSIDE YOUR **Neuromuscular Adaptation** CARDIOVASCULAR SYSTEM? **OUR MUSCLE FIBERS MAKE THE** Journey of Blood **JOURNEY DIFFERENT!** Measuring the Health of Your Velocity of Contraction: The Speed of Cardiovascular System the Fibers Strengthening Your Oxidative Ability: Endurance **Cardiorespiratory System** versus Power FIND YOUR STARTING POINT: ASSESS YOUR What Makes the Difference in Velocity **CURRENT LEVEL OF FITNESS** and Oxidative Ability? Should You Check with Your Doctor? YOU GET MANY BENEFITS FROM RESISTANCE PAR-Q and You **EXERCISE...NOT JUST THE ONES YOU WANT Determining Your Current Cardiorespiratory Aesthetic Benefits** Fitness: Maximal and Submaximal Tests **Functional Benefits** Tests Available To Determine Your Coordinates **Metabolic Benefits** 1-Mile Rockport Walk Test **Health-Related Disease Benefits** Cooper 12-Minute Run Test THE FITT NAVIGATION SYSTEM AND KEY Forestry Step Test PRINCIPLES FOR RESISTANCE EXERCISE Åstrand Cycle Test Key Principles to Guide the Travels TRAVELING THE COURSE: CREATING Frequency A FITNESS PLAN Intensity Using the FITT Navigation System Machine and Free Weight "I" Frequency Resistance Bands "I" Intensity Body Weight "I" Time Water "I" Type **Time** Self-Monitoring, Goal Setting, and Type **Progression of Aerobic Exercise** Free Weights APPENDIX: BORG RATING OF PERCEIVED

Machine Weights

of Resistance

Resistance Bands, Body Weight,

Water-Based Exercises, and Other Modes

EXERTION (RPE)

GLOSSARY

REFERENCES





96

	PUTTING IT ALL TOGETHER
	RESISTANCE TRAINING ASSESSMENTS
	SELF-MONITORING, GOAL SETTING, AND PROGRESSION OF RESISTANCE EXERCISE
	GLOSSARY
	REFERENCES
5.	Flexibility on the Journey
	FLEXIBILITY ON YOUR JOURNEY
	TERMINOLOGY RELATED TO FLEXIBILITY
	RANGE OF MOTION: WHAT DETERMINES THE TRAVEL PLANS OF EACH JOINT?
	THE PHYSIOLOGY OF FLEXIBILITY
	WHAT DOES FLEXIBILITY ADD TO YOUR JOURNEY?
	THE FITT NAVIGATION SYSTEM FOR FLEXIBILITY TRAINING
	Frequency

Frequency Intensity Time

Type
Static Stretching

Dynamic Stretching
Proprioceptive Neuromuscular Facilitation

PUTTING IT ALL TOGETHER

FLEXIBILITY TRAINING ASSESSMENTS

MUSCULAR HEALTH: SELF-MONITORING, GOAL SETTING, AND PROGRESSION OF FLEXIBILITY EXERCISES

GLOSSARY REFERENCES

6. Fuel for the Journey

WE ARE OBSESSED WITH OUR FUEL?

Dietary Reference Intakes

"MyPlate" Has Replaced the Food Pyramid

MACRONUTRIENTS: NUTRIENTS THAT PROVIDE ENERGY

Carbohydrates

Fats Proteins

Where Do Calories Fit in the Discussion of Macronutrients?

BREAKING DOWN THE FOOD LABEL

Serving Size

Total Calories and Calories from Fat

Daily Value %

Updates to the Nutrition Facts Label

MICRONUTRIENTS

Vitamins

Minerals

WATER

METABOLISM AND THE ENERGY PRODUCING PATHWAYS

How Food Fuels You

Cellular Currency: ATP

ATP Producing Pathways

Creatine Phosphate as a Source of Energy Glucose as an Anaerobic Source of Energy Glucose as an Aerobic Source of Energy Fat as an Aerobic Source of Energy Protein as an Anaerobic or Aerobic Source of Energy

The Smooth Transition Between the Metabolic Pathways

ENZYMES

THE ENDOCRINE SYSTEM AND HORMONES

Endocrine Organs and Key Hormones in Metabolism

How Acute Exercise and Chronic Training Impact Hormone Release

FUEL FOR GENERAL HEALTH

What Are the General Characteristics of a Healthful Diet?

The Fuel Demands of Your Different Tissues

Red Blood Cells and the Brain

The Heart
The Muscles
The Liver

Fuel for Rest and for Light, Moderate, and High Intensity

FUEL FOR FITNESS

Nutrition for the General, Healthful Lifestyle

Fuel for Endurance Exercise Fuel for Resistance Exercise

FUEL AND THE LINK TO DISEASE

Obesity
Diabetes
Cholesterol

Metabolic Syndrome





116

XIV	Contents			
	Osteoporosis		Determining Your Energy Expenditure	
	Anemia		Determining Your Recommended	
	Why Proper Nutrition Matters: It's Not		Body Weight	
	Just Your Food—It is Your Fuel!		DEVELOPING A WEIGHT MANAGEMENT PLAN	
	GLOSSARY		Self-Monitoring	
	REFERENCES		Be Aware of What You Eat and How Much	
7. I	Packing Lite	150	Exercise You Get Use Goals to Motivate Yourself	
	BODY COMPOSITION AND WELLNESS		Plan Ahead for Success	
	BODY IMAGE AND WELLNESS		Setting SMART Weight and Body	
	Overweight and Obesity: The Health Burden		Composition Goals GLOSSARY	
	What Does It Mean to Be Overweight or Obese?		REFERENCES	
	EATING DISORDERS		8. Golf 13	76
	Anorexia Nervosa		HISTORY	
	Bulimia Nervosa		VALUES OF GOLF	
	Binge-Eating Disorder		OVERVIEW OF THE GAME	
	What Is a Healthy Range of Fat?		Equipment	
	CHECK YOUR BODY FAT AND RISK TO DISEASE		Clothing	
	Methods for Assessing Disease Risk		Clubs	
	Body Mass Index		Starter Set	
	Waist Circumference		Woods Irons	
	Methods for Assessing Body		Putter	
	Composition		Pitching, Sand, Gap, or Lob Wedge	
	Dual-Energy X-ray Absorptiometry and		Golf Balls	
	Other Clinical Methods Hydrostatic Weighing		The Course	
	Air Displacement Plethysmography		Practice Facilities	
	Bioelectrical Impedance Analysis (BIA)		RULES OF GOLF	
	Skinfold Measurement		GOLF ETIQUETTE	
	ASSESSING YOUR BODY COMPOSITION		Be Supportive of Your Fellow Players	
	MANAGING YOUR WEIGHT		Be Aware of Other Players on the Course	
	How Can I Change My Body		While on the Green	
	Composition?		FUNDAMENTAL SKILLS AND TECHNIQUES	
	Eat Less, Exercise More		The Golf Grip	
	Exercise More, Eat Better		The Golf Stance	
	Your Path to Healthy Weight Loss		Square Stance	
	Monitor the Amount You Eat		Open stance	
	Eat Good Foods		Closed Stance	
	Manage Your Weight Loss Over Time		Swing	
	Burn as Many Calories as You Eat		Maintain an Even Tempo	
	Resistance Training		Select the Target Address the Ball	
	Monitor Your Eating Habits		Waggle	
	Guidelines for Healthy Weight Loss		Backswing	



Swing plane	PLANNING AND PREPARING MEALS	
Downswing	Menus	
Follow-Through	Trail Mix	
Short Swing	Water	
Pitch Shot	USING A MAP AND COMPASS	
The Chip Shot	Maps	
Putting	Map Reading	
Putting Stance	Compass	
Putting Grip	Compass Technique	
Putting Swing Reading the Green	The Essentials	
Sand Bunkers	Loading Your Pack	
General Principles for Hitting Out of	BEST PRACTICES WHILE HIKING	
Sand Bunkers	Conditioning and Safety	
The Explosion Shot	First-Aid	
Side-Hill Lies	Trail Pests	
Uphill	Personal Hygiene	
Downhill Ball Balance Salah	Trail Etiquette	
Ball Below Feet Ball Above Feet	Campsites	
Playing from the Rough	Leave No Trace	
SAFETY AND INJURY PREVENTION	GLOSSARY	
GLOSSARY	REFERENCES	
SUGGESTED READINGS	RESOURCES	
WEB SITES	WEB SITES	
	₂₀₀ 10. Jogging	226
9. Hiking and Backpacking	HISTORY OF RUNNING	
	GETTING STARTED	
Hiking Boots, Socks, and Gaiters Packs	Consult Your Physician	
Clothing	Start Slowly, Listen to Your Body, and Be Consistent	
Sleeping Bags	Select a Good Shoe	
Tents and Shelters	Measure Your Foot's Arch	
Sleeping Pads	Find a Shoe Specialist	
Cooking and Eating Equipment	RUNNING FORM	
Tableware	Foot Placement	
Trail Stoves	Stride	
Pocket Equipment	Body Carriage	
Equipment Selection	TRAINING	
Checklists	Fundamentals of Training	
PLANNING YOUR TRIP Figure Out Where You Will Go	Create a Training Program with the FITT Navigation System	
	· · · · · · · · · · · · · · · · · · ·	
Permits	Warm Up and Cool Down	





XVI

Contents

CHOOSE A TRAINING PROGRAM

Beginner Program

Counting Steps

Time

Distance

Intermediate Program

Advanced Program

Resistance Training

Types of Training Systems

Long, slow distance (LSD)

Fartlek

Interval Training

Hard-Easy-Hard

Hill Running

Tempo Runs

SAFETY MEASURES AND CONSIDERATIONS

Preventing Running Injuries

Tips for Keeping Safe and Injury Free

GLOSSARY

SUGGESTED READINGS

Organizations and Newsletters

WEB SITES

Shoe Company Sites

Running Web Sites

11. Racquetball Handball, and

Paddleball

HISTORY

Handball History

History of Paddleball and Racquetball

VALUES OF THE GAMES

EQUIPMENT

Balls

Gloves

Racquet

Paddle

Eyeguards

COURTS

One-Wall Court Four-Wall Court Three-Wall Court

RULES

Keeping Score

Serving

Losing Service

Serving in Doubles Play

Defective Serves

Service Faults

Out Serves

Returning the Serve

Hinders

Replay Hinders

Penalty Hinders

Play Considerately and Fairly

Outs During a Rally

Three-Wall Court

Special Rules for Paddleball

Special Populations

SAFETY

FUNDAMENTAL SKILLS AND TECHNIQUES

Position on Floor

Footwork

Accuracy of Playing Shots

The Handball Hand

Strokes

Overhead Stroke

Sidearm Stroke

Underhand Stroke

Kill Shots

256

Straight Kill Shot

Outside-corner Pinch Shot

Fly Kill Shot

Back-Wall Shot

Ceiling Shot

Pass Shot

Serve

Drive Serve

Z Serve

High or Half Lob

Two-wall Serve to Back Corner

Hints on Play and Strategy

SKILLS TO PRACTICE ALONE

Serving Drills: Drive Serve

Defensive Shots: Lob, Ceiling, High Z,

Around-the-Wall

30- Second Drill

Forehand and Backhand Shots from Side-

Wall Toss

Suicide Drill







Ceiling Ball Rally

Off-the-Back-Wall Kill

Deep Lob Serve

Drive and Short Lob ("Garbage") Serve

ETIQUETTE ON THE COURT

GLOSSARY

SUGGESTED READINGS

WEB SITES

12. Swimming

284

HISTORY OF SWIMMING

Competitive Swimming

Traditional Swimming Strokes

Types of Aquatic Activities

SWIMMING SAFETY RULES

Rules for All Swimming Pools

Rules for Outdoor Swimming Areas

THE ALL-STROKE METHOD FOR BEGINNERS

Practice Different Swim Kicks

Master Breathing While Swimming

BASIC SWIMMING SKILLS AND TECHNIQUES

Adjust to the Water

Control Your Breath

Use Your Eyes Underwater

Practice Balance and Control of Your Body in the Water

Jellyfish Float

Streamline (Prone) Float Position

Streamline (Prone) Glide and Stand

Back Floating Position

Back Glide and Stand

Practice Simple Leg Movements

Kick Glide, Streamline Position

Kick Glide, Back Position

Practicing Arm Movements

Arm Stroke on the Front

Arm Stroke on the Back

Coordinating Your Breath with Your Legs and Arms

Combined Stroke on the Front

Combined Stroke on the Back

Turning, Right and Left

Change Positions

SAFETY AND SURVIVAL STROKES

Resting Backstroke

Inverted Breaststroke Kick for the

Resting Backstroke

Arm Stroke for the Resting Backstroke

Whole Stroke for the Resting Backstroke

Elementary Backstroke

Inverted Breaststroke Kick for the Backstroke Arm Stroke of the Elementary Backstroke

Whole Stroke of the Elementary Backstroke

Underarm Sidestroke

Scissors Kick

Scissors Kick Arm Stroke

Whole Stroke of the Sidestroke,

Coordinated in Four Steps

COMPETITIVE STROKES

Breaststroke

Kick of the Breaststroke

Arm Stroke of the Breaststroke

The Whole Breaststroke

Crawl Stroke (Freestyle)

Flutter Kick

The Alternating Arm Stroke of the

Freestyle Stroke

Whole Freestyle Stroke

Breathing During the Freestyle Stroke

The Backstroke

Backstroke Flutter Kick

Arm Stroke of the Back Crawl

Breathing and Head Position of

the Backstroke

Butterfly Stroke

Kick of the Butterfly Stroke

Arm Stroke of the Butterfly

Whole Stroke of the Butterfly

Breathing During the Butterfly Stroke

GLOSSARY

SUGGESTED READINGS

PERIODICALS

WEBSITES

13. Tennis

314

HISTORY OF TENNIS

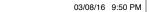
Tennis in the United States

Tennis at the Olympics

TENNIS CLOTHING AND EQUIPMENT

Clothing





II. Contrate		
II Contents	7.4 M. H	• • •
Ball	14. Walking for Fitness	346
Racquet	A LITTLE BACKGROUND	
Strings	SHOES AND CLOTHING FOR WALKING	
Grip	Shoes	
Courts	Clothing	
RULES AND SCORING	Other Walking Accessories	
Singles Game	GETTING STARTED	
Serving	Basic Steps	
Service Fault	Where to Walk (Figure 14.5)	
Receiving	Walking as a Sport	
Scoring	Walking as a Recreational Fitne	ess Activity
Doubles Game	Intensity	,
Serving Doubles Play	Duration	
Returning the Serve in Doubles Play Tiebreaker in Doubles Play	Frequency	
,	Warm up, Cool Down, and Flexil	bility
TENNIS ETIQUETTE	Static Stretching	
FUNDAMENTAL SKILLS AND TECHNIQUES	Resistance Training	
Grips	FUNDAMENTAL SKILLS AND TECHNIQUE	ES
Forehand Grips Backhand Grips	Posture and Alignment (Figure	14.8)
,	Foot Placement	
Types of Shots	Hip Movement	
Groundstrokes The Serve	Stride (Figure 14.9)	
Return of Serve	SAFETY MEASURES AND CONSIDERATION	ONS
Playing in the Forecourt	Environment (Figure 14.10)	
Volley	Preventing Walking Injuries	
Overheads Leb	Overstress	
Lob Half Volley	Treatment	
Spin	GENERAL WALKING TIPS	
EFFECTIVE PRACTICE		
Using a Backboard or Ball Machine	Walk in Moderation and Vary Your Program	
Practice Versus Play	Track Your Target Heart Rate	
Practice Drills	Track the Amount of Time That	
Deep Rally Practice	You Walk	
Cross-court practice	Take Time to Recover	
Down-the-line practice	Eat Sensibly	
Approach shot practice	Drink Water	
STRATEGY	Walk with Friends, Be Safe (Figu	re 14.13)
Singles Strategy	GLOSSARY	
Doubles Strategy	SUGGESTED READINGS	
GLOSSARY		
SUGGESTED READINGS	15. Weight Training	366



WEB SITES



HISTORY OF STRENGTH TRAINING

394



Weight Lifting in the United States

Olympic Weight Lifting

HEALTH BENEFITS OF WEIGHT TRAINING

KEY ELEMENTS OF A TRAINING PROGRAM

Six Principles of Weight Training

Muscle Actions

Frequency, Intensity, Volume, Type, and Rest

GENERAL GUIDELINES AND TECHNIQUE

Warm-up

Lift the Right Weight for You

Breath

Complete a Full range of Motion

Balance Your Muscles

Order of Exercises

Ask for a Spot

Rest

Progressive Resistance Exercise (PRE)

Workout Variability and Improvement

Periodization

TECHNIQUES FOR UPPER BODY

Free-Weight Bench Press

Rack-Mounted Bench Press

Lateral Pull Down

Free-Weight Bent-Over Row

Standing Free-Weight Overhead Press

Free-Weight Arm Curl

Arm Curl with Preacher Bench

Parallel-Bar Dip

Side Lateral Raise

TECHNIQUES FOR LOWER BODY EXERCISES

Free-Weight Parallel Squat

Deadlift with Dumbbells

Leg Curl

Calf Raise

Abdominal Crunch

Side Bridge

Back Hyperextension

Leg Extension

Pull-Up

Shoulder Shrug

Squat Jump

Push-Up

CIRCUIT WEIGHT TRAINING

Typical Circuit Program

Setting Up a Personal Circuit

KEEPING A RECORD

LIFTING EQUIPMENT

Weight Belts

Lifting Gloves

Wrist Straps

Wraps

GLOSSARY

SUGGESTED READINGS

PERIODICALS

WEBSITES

16. Yoga

VALUES OF YOGA

YOGA EQUIPMENT

BASIC PRINCIPLES OF YOGA

The Warm-Up of the Yoga Lesson

The Body of the Yoga Lesson

The Cool-Down of the Yoga Lesson

BASIC YOGA TECHNIQUES

Warm-Up Activities

Count Breathina

Three-Part Breath

The Middle of the Lesson—Poses of the Sun Salutation

1. Stand in Mountain Pose

2. Standing Backbend Pose

3. Standing Forward Bend Pose

4. High Lunge Pose

5. Plank Pose

6. Grasshopper Pose

7. Cobra Pose

8. Downward-Facing Dog Pose

Complete the Poses of the Sun Salutation

Cool-Down Activities

Corpse Pose (Shavasana)

ADDITIONAL YOGA TECHNIQUES

Additional Beginning Asana

Child's Pose

Easy Seated Pose

Warrior I Pose







XX	Contents		
	Warrior II Pose Triangle Pose Stick Pose (Chaturanga) Chair Pose Upward-Facing Dog Pose Pyramid Pose Seated Forward Bend Pose Tree Pose YOGA ETIQUETTE GLOSSARY		Olympic Basketball History College Basketball Professional Basketball BASKETBALL COURT AND EQUIPMENT The Ball The Court The Basket Shoes
	SUGGESTED READINGS		RULES OF BASKETBALL
	WEBSITES		The Tip Off
		47.6	Scoring
17.	Aerobic Dance	416	The Dribble
	HISTORY OF AEROBIC DANCE		Free Throw
	BENEFITS OF AEROBIC DANCE		Out-of-Bounds
	FINDING A CLASS		Fouls
	Facilities		Player Positions
	Equipment		Officials
	Apparel and Shoes		Scoring
	FUNDAMENTAL SKILLS AND TECHNIQUES		Duration of Game
	Warm-up and Pre-stretch		FUNDAMENTAL SKILLS AND TECHNIQUES
	Aerobic Activity		Passing
	Heart Rate Monitoring		Chest or Push Pass
	Perceived Exertion		Bounce Pass Two-Hand Overhead Pass
	Aerobic Steps and Movements		Off-the-Dribble Pass
	Basic Steps		Baseball Pass
	Movement Patterns		One-Hand Hook Pass
	Cool Down		Flip Pass
	Strength Exercises		Pivoting
	Final stretch		Dribbling
	Low, Moderate, and High Impact		Up-and-Under Fake Pass, Dribble, and Shoot
	Other Aerobic Training Modes		Fake Pass and Dribble
	INJURY PREVENTION		Basic Mechanics of Shooting
	APPENDIX: BORG RATING OF PERCEIVED EXERTION (RPE)		Release Action Jump Shot
	GLOSSARY		One-Hand Set Shot
	REFERENCES		Layup Shot
	SUGGESTED READINGS		Hook Shot
	MUSIC SERVICES		Defense
	WEB SITES		Stance
18.	Basketball	436	Role of Defensive Players





Player-to-Player and Zone Defenses

HISTORY OF BASKETBALL



	Offense			Attacking Principles (Moving, Support, Penetration, Finishing)	
	Basic Offensive Formations			Defending Principles	
	TIPS TO REMEMBER			GLOSSARY	
	GLOSSARY			SUGGESTED READINGS	
	SUGGESTED READINGS				
	WEBSITES			WEBSITES	
19.	Soccer	464	20.	Volleyball	486
	HISTORY OF SOCCER			HISTORY OF VOLLEYBALL	
	THE NATURE AND SPIRIT OF THE GAME			VOLLEYBALL COURT AND EQUIPMENT	
	THE GAME, BALL, AND PLAYERS			BASIC RULES OF VOLLEYBALL	
	The Pitch			Player Positions	
	Goals			Substitution	
	Technical Area			Libero	
	Equipment			Service and Rotation of Positions	
	Officials			Returning the Ball	
	RULES OF SOCCER			Restrictions in the Play of Backline Players	
	Starting the Game			Infractions	
	Game Time			Time-Out	
	Out-of-Bounds			Scoring	
	Direct Restarts			Officials and Their Duties	
	Penalty Kick Corner Kick			FUNDAMENTAL SKILLS AND TECHNIQUES	
	Direct Kick			Passing	
	Indirect Restarts			Forearm Pass	
	Goal Kick			Setting	
	Throw-In			Spiking	
	Indirect Free Kick			Tipping	
	Drop Ball			Serving	
	Fouls and Misconduct			Types of service	
	Off-Sides			Underhand Serve	
	Cautions and Game Expulsions			Overhand Serve	
	FUNDAMENTAL SKILLS AND TECHNIQUES			Sidearm Serve Jump Serve	
	Passing			Receiving the Serve	
	Shooting			Blocking	
	Heading			Retrieving the Ball from the Net	
	Trapping and Collecting			TEAM PLAY	
	Dribbling			Offense	
	Tackling and Marking			4-2 Offense	
	Goalkeeping			6-2 Offense	
	Systems of Play			5-1 Offense	





Defense

OFFENSIVE AND DEFENSIVE PRINCIPLES

XXII

Contents

The Base Defense
The Rotation Defense

GLOSSARY

SUGGESTED READINGS

WEB SITES

21. Disc Sports

504

HISTORY

Disc Golf

Ultimate

SOCIAL VALUES

FUNDAMENTAL SKILLS AND TECHNIQUES

Disc Throwing Grips

Backhand Throw

Forehand or Sidearm Throw

Overhand Throw

Body Positioning and Stance

Disc Flight Patterns

Skip or Bounce Throw

Level Flight Throw

Roll Curve Throw

The Floater

Using the Hyzer to Avoid Turning

Over the Disc

Catching Skills

The Catch

Trap Catch

Positioning for a Catch

The Cross-Body Backhand

Forehand Throw

The Overhand Throw (The Hammer)

Throwing Around Obstacles

PLAYING ULTIMATE DISC

Ultimate Offense

Ultimate Defense

Ultimate Disc Field and Equipment

BASIC ULTIMATE RULES

Starting and Restarting Play

Offense

Defense

Fouls and Violations

PLAYING DISC GOLF

Field/Equipment

Rules of Play

Order of Play

Teeing Off

Marking Your Lie

Playing Hazards and

Out-of-Bounds

Holing Out

GLOSSARY

SUGGESTED READINGS

WEBSITES







FitQuest Self-Assessments and Labs

These online labs and self-assessments are available as online interactive activities. PDF and print versions are also available.

INTRODUCTION TO YOURSELF

- Par-Q: Readiness for Exercise
- Multi-Dimensional Wellness Inventory
- Learning Knowledge and Abilities Survey
- Expected Involvement Survey

BEHAVIOR CHANGE AND GOAL SETTING

- · Identify Your Barriers, Motives, and Motivators
- Set Your SMART Goal for Exercise

CARDIORESPIRATORY FITNESS

- .5 Mile Run Fitness Test
- Rockport Walk Fitness Test
- YMCA 3-Minute Step Test
- Find Your Target Heart Ranges
- Create an Individualized Fitness Roadmap

MUSCULAR HEALTH

- Resistance to Exercise: Where are You Now
- Body Weight Calculator
- Strength Assessment





- Push Up Test
- Curl Up Test
- Vertical Jump Test

FLEXIBILITY

- Sit and Reach Test
- Trunk Extension Test
- Shoulder Elevation Test

NUTRITION

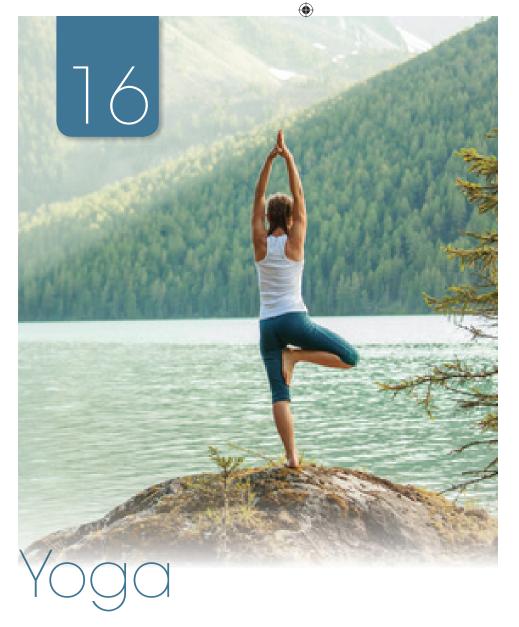
- Wellness Activity and Diet Tracker
- BearTracks Mobile App

BODY COMPOSITION

- Impact of Healthy Body Composition
- Body Mass Index
- Body Weight Calculator
- Calorie Calculator







FIND YOUR CENTER

AFTER COMPLETING THIS CHAPTER, THE READER SHOULD BE ABLE TO:

- Describe the basic philosophy and health benefits of yoga
- Explain basic yoga postures and perform a general vinyasa in the sun salutation
- Demonstrate all sun salutation postures
- Explain the etiquette of yoga





The term "yoga" literally means "yoking" or "union" in the sense of bringing together a harmonious relationship with the physical and spiritual aspects of self. The practice of yoga dates back more than 5,000 years and has gone through several resurgences around the globe in the last century. What was once seen as a practice by the fringe elements of society has now been fully embraced by mainstream America. In fact, yoga studios are now commonplace in most American cities. Yoga is not a religion, but rather a philosophy that encompasses many lineages and schools of thought. Most Americans practice hatha yoga, a branch of yoga that focuses on physical postures and breathing practices.

VALUES OF YOGA

Teaching yoga to children and youth has many advantages. Traditionally, people think of yoga as only improving flexibility; however, it also helps you to develop strength and stamina and it enhances concentration and awareness. For example, the focused breathing used in yoga can actually help participants facilitate the performance of spatial cognitive tasks. Kinesthetic awareness can also be greatly improved, as yoga helps to fine-tune motor coordination and can help individuals gain control over their developing bodies. Yoga is an activity that can be pursued throughout life as it can be easily modified to accommodate differing abilities. It may also seem that yoga is simply "stretching," but the variety and sequencing of postures coupled with the practice of deep breathing creates an extremely diverse and effective method of enhancing a range of health-related fitness skills.

YOGA EQUIPMENT

You can practice yoga almost anywhere and you do not need equipment to do it. However, you can enhance your yoga experience with the following:

- Yoga mats: Mats provide individual space for each participant and allow the instructor to arrange the class for maximal visibility and safety. They also provide a nonslip, padded surface on which to practice postures (see Figure 16.1).
- Yoga blocks, bands, bolsters: These can be used to help participants who lack the flexibility or strength to safely achieve and/or hold a posture.

Videos, like those included in this course, can help you practice yoga poses and learn new ones.



Figure 16.1: A yoga mat will give you a good, non-slip surface on which to practice yoga poses.

BASIC PRINCIPLES OF YOGA

A typical yoga class will follow a traditional teaching format. A general warm-up will precede the body of the lesson, which is composed of skill practice, refinement, and









application. A general cool-down will conclude each yoga session. The following section describes principles and strategies regarding the warm-up, the body of the lesson, and the cool-down.

The Warm-Up of the Yoga Lesson

Start your yoga practice with a few minutes of deep breathing. Use this time to center and calm yourself before beginning the physical practice of yoga. The yoga warm-up allows you to cleanse your mind and release daily worries. Yoga is a great way to alleviate stress.

The Body of the Yoga Lesson

There are literally thousands of yoga asanas, or poses. A sequence that many beginners start with is a variation called the sun salutation. Depending on the yoga tradition that is followed, the sun salutation sequence offers many different variations. All essentially follow a similar pattern of movement.

The sun salutation series, or vinyasa, is thought to have a complete and total effect on the entire body, which is why it is such a popular sequence. Once the individual poses that make up the sun salutation series have been mastered, the series may be executed continuously in a flowing movement. A complete sun salutation series is shown in Video 16.1.

The sun salutation (see Figure 16.2) is a series of poses practiced in a specific order. Two times through the order is considered one round. A complete cycle of the sun salutation is comprised of two rounds. The order of the sun salutation is as follows:

- Standing mountain pose
- Standing back bend pose
- Standing forward bend pose
- High lunge pose
- Plank pose
- Grasshopper pose
- Cobra pose
- Downward facing dog pose
- High lunge pose
- · Standing forward bend pose
- Standing back bend pose
- Standing mountain pose



Video 16.1: Sun salutation series

The Cool-Down of the Yoga Lesson

Most classes will end with a few minutes of deep breathing and relaxation. Classes may practice the focused breathing activity, such as deep belly breathing, that is used to









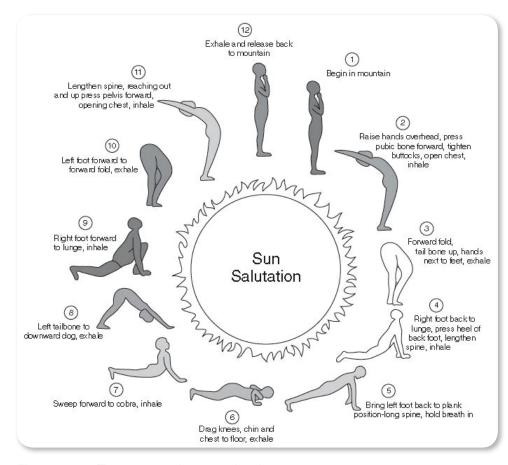


Figure 16.2: The poses of the sun salutation

begin class. Another typical cool-down to elicit a relaxation response is to allow participants to assume the shavsana, or corpse pose. Encourage participants to relax completely prior to ending the lesson.



Figure 16.3: General breathing

BASIC YOGA TECHNIQUES

In this next section, you learn some basic yoga techniques. The text provides some basic instructions, but videos will also help demonstrate how various yoga poses are done.

Warm-Up Activities

General breathing techniques are typically practiced to begin a yoga lesson. To begin practicing breathing techniques, it is often easiest to lie in a supine position on the floor and rest the hands on the belly (see Figure 16.3). As one inhales through the nose, the belly will begin to slowly









rise up, somewhat like filling a balloon. As the individual exhales through the nose, the belly will slowly deflate. Practice this several times. Be mindful not to hyperventilate, as the purpose is to develop slow, even, and moderately deep breaths. As you advance, slow your breathing down even more by utilizing a count. Count breathing and the three-part breath are appropriate warm-up activities to prepare for the sun salutation.

Count Breathing

"Inhale on 1-2-3—hold for 1—and exhale for 1-2-3." Beginners can usually manage counts of 3 to 6 seconds. This deep belly breathing stimulates the sympathetic branch of the autonomic nervous system and has a calming effect on the mind and body. You can and should strive to maintain this breathing pattern throughout the body of the yoga lesson. To assist in this, instructors will usually cue both the pose and the breathing for each posture.

Three-Part Breath

This is another breathing technique commonly used to help you become familiar with how the body responds during respiration. The three-part breath should only be used as a warm-up activity, while count breathing may be used throughout the body of the lesson, or yoga asana practice. To practice the three-part breath:

- Place your hands on your belly.
- Breathe in and expand your belly for three counts.
- Exhale and let your belly relax for three counts (Part 1).
- Move your hands to your ribs.
- Continue to inflate and deflate the belly, but now add the ribs to the movement (Part 2).
- Try to get the air to the very top of your lungs, right underneath your collarbones (Part 3).
- Keep breathing slowly through your nose throughout each breath. Do not force your breath; try to breathe as fully and naturally as you can.
- If you feel dizzy, stop and return to your normal breathing pattern.
- Pour the breath out as if you were pouring out a glass of water from the clavicles to the belly button. The last air in is the first air out, just like the water would flow.

The Middle of the Lesson—Poses of the Sun Salutation

It is important to remember that everyone is built and put together a little differently. This becomes apparent when the practice of yoga postures begins. There is no one "perfect" posture for a pose and your body will reveal the movement a little differently. In a yoga class, your poses do not have to be identical to the poses of your fellow participants. You are not competing with them, but instead you are joining with them to cultivate an enjoyable, peaceful experience. In the following section, each pose of the sun salutation includes written instructional cues as well as a video that you can stop and start. Note that the poses are numbered and follow the appropriate order for completing a cycle within the sun salutation series.

1. Stand in Mountain Pose

Mountain pose is the position from which most standing poses start. If done correctly, this pose may feel like work; however, it should not feel like a rigid "soldier" posture.









You should feel solid and "grounded like a mountain" in the pose (see Video 16.2). To stand in mountain pose:

- Stand at the front of your mat.
- Your feet should be shoulder-width apart. Balance on the four corners of your feet and spread your toes.
- All ten toes should be pointing forward with the outside edges of the feet parallel to the outside edges of the mat.
- Your tailbone reaches downward, while your spine and head reach upward.
- Keep your arms are at your sides with fingers reaching down.
- Thigh muscles are pulling upward and in toward the femur bones.
- Practice count breathing in this posture for several breaths. Eyes can be closed or open.



Video 16.2: Standing mountain pose

2. Standing Backbend Pose

This posture is designed to open the upper torso. The legs are grounded while the upper torso is free to move like tall bamboo bending in the wind. In this pose, it is helpful to think about expanding the chest, rather than arching the back (see Video 16.3).

To do the standing backbend pose:

- Inhale and extend the arms out to the sides and slowly reach them overhead. (You
 may choose to place your fully extended arms with the hands together overhead
 or leave them shoulder-width apart.) Look up at your thumbs and reach your arms
 toward the sky.
- Exhale, lift, and open the chest. Slowly begin to let the head and eyes look up and begin to travel backward across the ceiling. Try to avoid just dropping the head back; rather, strive to keep the back long throughout the arch.
- Lift up and out of the pelvis and elongate the spine. Engaging the gluteus muscles can help to protect the spine.













Video 16.3: Standing backbend pose

- Inhale and come back to the extended standing position.
- Variation: Some might find it comfortable and stable to place the palms of their hands on their lower back during this posture.

3. Standing Forward Bend Pose

The purpose of this pose is to allow your legs to be fully engaged and connected to the earth, feeling a stretch in the hamstrings. The energy of the earth is allowed to travel up the legs as the upper torso and head relax (see Video 16.4).

To do the standing forward bend pose:

- Exhale and allow yourself to fold forward at the hips.
- Feet stay grounded and pushing into the earth. Hips lift. Knees can be slightly bent
 to allow chest to drape on the upper thighs, which is the safest position for the low
 back.
- The head hangs like a ripe piece of fruit from a tree branch. Arms are also hanging next to the legs or the fingertips may be gently resting on the thighs, shins, or the floor for the very flexible participants.
- Variations: Arms can be out to the side (like a swan dive) or straight down the center
 of the body.

4. High Lunge Pose

This is an excellent hip opener and is often referred to as the runner's stretch. To achieve full extension of the hip in this posture, the instructor should encourage a large backward step, approximately 3 feet in distance (see Video 16.5). To do the high lunge pose:

- Inhale and step with the right foot, reaching with the heels, toward the back of the mat. Left leg stays at 90 degrees to the floor.
- Fingertips or palms rest on the floor.
- Right hip gently presses toward the ground, while the right leg fully extends.



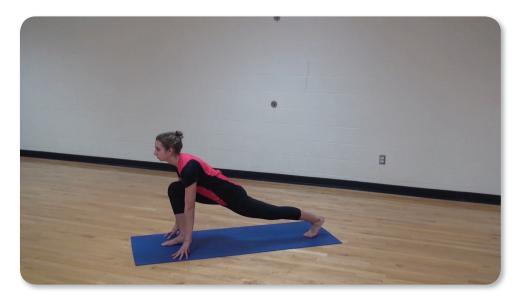








Video 16.4: Standing forward bend pose



Video 16.5: High lunge pose

- Back should be flat and long, while the head can be either up or down.
- Front knee presses forward, while the back heel presses backward.
- The tailbone reaches toward the feet, while the top of the head stretches forward.

5. Plank Pose

This posture will look like the top of a standard push-up. The plank pose encourages a union between the upper and lower body. The pose takes a lot of arm strength, so it is appropriate for beginners to go to their knees (see Video 16.6). To do the plank pose:

• Step the left foot back in line with the right foot. Your body is now in a "push-up" position.











Video 16.6: Plank pose

- Try to keep yourself straight like a board. Use your abdominal muscles to assist you.
- Pull the bellybutton upward as you extend through the heels of the feet.

6. Grasshopper Pose

This pose visually resembles a grasshopper and is often called the 8-point pose, as the participant has two feet, two knees, two hands, one chest, and one chin in contact with the floor (see Video 16.7). To do the grasshopper pose:

- Slowly lower yourself to the ground, touching only your knees, chest, chin, hands, and toes. When you get to the ground, your body will look like a grasshopper.
- The hips stay 2 to 6 inches (5–15 cm) off the floor.
- The pose is typically not held more than 1 to 2 seconds before you release to a prone position.



Video 16.7: Grasshopper pose









7. Cobra Pose

This posture builds lower back strength and upper back flexibility (see Video 16.8). To do the cobra pose:

- Lie flat on the ground and lift your chest and torso slightly off the floor as if a group of ants was walking right under your nose and shoulders.
- Look at the ants under your nose, and when the last one has passed, lower yourself back down to the ground.
- Do not use your hands or arms to lift. Keep your elbows in tight to the sides.
- Think about expanding the chest and lengthening the spine instead of arching the back.



Video 16.8: Cobra pose

8. Downward-Facing Dog Pose

This is one of the best stretches in all of yoga for the back side of the body. Do not place too much weight on your hands and keep your legs apart (see Video 16.9). When you are in the downward facing dog pose:

- Tuck your toes under and lift your buttocks as high as you can in the air. Your body will form an upside down letter *V*.
- Imagine pushing your hands forward as if you had them on a rolling pin that was in wet cement.
- Keep your legs straight and try to push your heels to the ground. It is all right if they
 do not touch the floor.

Complete the Poses of the Sun Salutation

At this point, you will complete the Sun Salutation by repeating these poses:

- High Lunge Pose (Video 16.5)
- Standing Forward Bend Pose (Video 16.4)

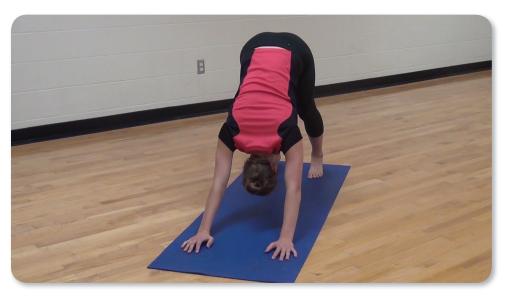












Video 16.9: Downward-facing dog pose

- Standing Backbend Pose (Video 16.3)
- Stand in Mountain Pose Video 16.2)

You are now back at the beginning posture of the sun salutation.

As previously mentioned, two times through this series of poses is considered to be one round in this version of the sun salutation. At this point, one-half of the cycle has been completed. When the second half of the cycle begins, the only variation is that the left leg goes into the high lunge pose first. If that is difficult to remember or cue, continue to allow the right leg to be the first high lunge. It is often helpful to visualize the postures of the sun salutation in a circular, rather than linear, format.

Cool-Down Activities

After you have completed the poses of the sun salutation, do the following to cool-down.

Corpse Pose (Shavasana)

It is believed that finishing a practice in this posture allows the nervous system and the rest of the body to integrate the movements practiced. Many argue that the time spent in resting corpse pose at the end of the practice is the most important of all (see Video 16.10). To cool-down:

- Begin by resting on the floor on your back with palms facing upward about 6 inches (15 cm) from your sides. Eyes should be gently closed.
- Allow the body to relax and melt into the floor.
- Perform body scan. Talk yourself through your body and relax each body part. For example, relax your left hand (pause for 5 to 10 seconds), relax your left arm and shoulder (pause for 5 to 10 seconds), relax your right hand (pause for 5 to 10 seconds), relax your right hand and shoulder, and so on.
- Exit the pose by first rolling gently onto one side, exhaling as you do so. Take two
 or three breaths. With another exhalation, press your hands against the floor and lift
 your torso, dragging your head slowly after.











Video 16.10: Corpse pose

- The head should always come up last.
- Participants return to a comfortable sitting position and rest for a few moments to normalize circulation.

ADDITIONAL YOGA TECHNIQUES

The sun salutation provides you with a common ground to begin the practice of yoga. Once you are comfortable practicing the sun salutation poses, you can challenge yourself by incorporating additional postures and sequences. There are literally thousands of yoga asanas, so you will probably never know all of them.

The following section contains additional asanas that could be included in a yoga class. These are common poses that may be easily incorporated within a session. It is important to be consistent and to practice the postures in a safe and appropriate manner. Unless otherwise noted, the following postures are typically not held for longer than 15–30 seconds for beginners. Count breathing should continue to be practiced.

Additional Beginning Asana

The poses in this section are good if you are beginning to learn yoga.

Child's Pose

This is a resting pose in which you remain from 30 seconds to a few minutes. This pose should be very comfortable (see Video 16.11). Do not worry if you cannot get your buttocks on your heels. This is a great pose to practice your breathing and relaxing. To do the child's pose:

- Rest your forehead on the ground and focus on your breath.
- Allow the hips to relax and the belly to expand as it rests between the legs.
- Arms may rest by the sides or in front of the head on the mat.











Video 16.11: Child's pose

Easy Seated Pose

In this pose, you sit cross-legged, with your shins aligned parallel to each other (see Video 16.12). To do the easy seated pose:

- You can sit in this position for any length of time, but if you practice this pose regularly, be sure to alternate the cross of the legs.
- Sit tall and lengthen your spine while rooting your pelvis to the ground.
- Breath deeply and focus on the point between the eyebrows.



Video 16.12: Easy seated pose









Warrior I Pose

This is a standing lunge pose with arms held overhead. A slightly narrow stance and resting one hand on the sacrum can reduce the difficulty of this pose. Although it looks simple, this can be a very challenging asana (see Video 16.13). This pose builds leg strength and stamina. Instructional cues:

- Ensure that the rear foot is planted on the floor.
- Lift and expand the chest while sinking down into the hips.
- Allow the back to form a natural arch as the eyes look straight ahead or to the sky.



Video 16.13: Warrior I pose

Warrior II Pose

This is a standing lunge pose with the arms extended horizontally over the legs. Torso and front of the pelvis align. Head turns and eyes look out over the front fingers (see Video 16.14). Instructional cues:

- Most beginners do not step wide enough and often allow their torso to be "pulled forward" in this pose instead of keeping the armpits directly above the hips.
- Elongate your spine and neck and stretch out your arms.
- This pose is sometimes called the star pose because of the energy flow it creates.
 Try to feel the energy flowing up through your legs and out through your fingers and head.

Triangle Pose

This pose incorporates flexion, extension, and rotation all at once. Stay in the posture for more than 15 seconds and you will feel how it works the entire body, building strength and flexibility at the same time (see Video 16.15). To do the triangle pose:

• The most common error that beginners make is to reach for their feet and twist their torso instead of "tipping" their torso in the same plane.













Video 16.14: Warrior II pose



Video 16.15: Triangle pose

- The upper torso reaches forward and the hips shift backwards slightly as you enter this pose, almost as if your fingers were being pulled in one direction and your hips in another.
- Once you have reached as far forward as you can, simply tip yourself toward the floor or shin.
- The essence of this pose is lengthening the spine and staying in one plane, not touching the floor.
- If it bothers your neck to look upward, you can look straight ahead or at the floor.
- Pull energy up from the floor and firm up your legs.
- Try to turn from your torso and not from your shoulders.









Stick Pose (Chaturanga)

Typically, you get into this posture from the plank pose. This pose is a more difficult version of the grasshopper pose in the sun salutation. It is used frequently in other versions of sun salutation. Although it does require strength, perhaps the most important thing in this pose is having the intention and courage to do it (see Video 16.16). To do the stick pose:

- Start in the plank pose and then lower 1 to 2 inches (2.5 to 5 cm).
- Your eyes can look down or straight ahead.
- Elbows should touch your ribs as you lower down.
- Try to keep your entire body straight as you lower.
- Even if you just lower down by 1 inch (2.5 cm), that's a good start. The more you practice, the stronger you will get.
- If you need to, you can go to your knees and perform the grasshopper pose.



Video 16.16: Stick (Chaturanga) pose

Chair Pose

This pose is a great example of yin and yang, or opposite energies. While the arms, upper torso, and face reach up, the hips and lower body settle and sink down (see Video 16.17). To do the chair pose:

- As the feet and knees are a comfortable shoulder-width apart, reach the arms forward and fully extend the spine.
- Look up to the hands or straight ahead.
- Reach the tailbone back.
- Allow the upper body to be buoyant while it is anchored by the strength of the lower body grounding you to the earth.
- Breathe.











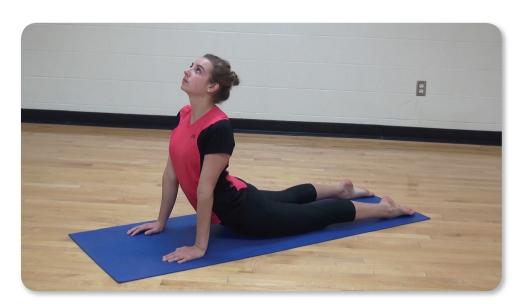


Video 16.17: Chair pose

Upward-Facing Dog Pose

This is one of the best chest openers in yoga and also a good pose with which to begin to build upper-body strength (see Video 16.18). To do the upward-facing dog pose:

- At the end of this pose, only the hands and tops of the feet remain on the floor. In many vinyasa sequences, this pose is done between the chaturanga and downward facing dog pose.
- In this pose, there is often a tendency to "hang" on the shoulders, which lifts them up toward the ears and scrunches the neck. To avoid this, slide your shoulders away from your ears and pull your shoulder blades toward your tailbone.
- Refrain from arching the back; rather, concentrate on lengthening through the front of the body.



Video 16.18: Upward-facing dog pose.









Pyramid Pose

This pose creates an intense hamstring stretch and can be felt along the anterior portion of the shins. The straighter the back is kept as you bend forward, the more the hamstring is engaged (see Video 16.19). To do the pyramid pose:

- The feet are slightly closer together than they are in the warrior II pose.
- If it isn't possible for you to touch the floor in this pose, you can support your hands on a pair of blocks or the seat of a folding chair.
- Cast your spine forward as you bend. Keep the length throughout the spine and avoid rounding. If your hands do not touch the floor, simply rest them on your shins.
- · Square your shoulders to the mat.



Video 16.19: Pyramid pose

Seated Forward Bend Pose

This is a nice hamstring stretch that can be intensified by striving to keep the torso and back long as you reach forward (see Video 16.20). To do the seated forward bend pose:

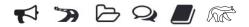
- This pose is not about getting your nose to your knees; rather, imagine that your nose will touch your toes.
- Let your hips be grounded to the floor. Now extend and lengthen your spine
 from your hips. Each time you inhale, visualize yourself extending further toward
 your toes. Each time you exhale, relax and settle into the ground a little more
 deeply.
- Grab your big toes with your first two fingers if you can. If not, use a band. Keep
 your spine flat and your eyes on your big toes. Imagine that with each breath you are
 able to get your nose a little closer to your toes.
- In this posture, the hips actually are tilting backward to allow the back to remain flat while extending forward. You should not allow the pelvis to tilt forward, nor should the spine appear to round as you bend forward.













Video 16.20: Seated forward bend pose

Tree Pose

This is one of the simplest balance poses (see Video 16.21). To do the tree pose:

- Begin in mountain pose, with your feet together and your hands at your sides
- Use a dristi, which is an eye focusing point. Focus on a point either on the wall or floor. (Using a dristi is something that you should do in all balancing poses.)
- Shift your weight to your right foot and bend your left knee. With your left hand, reach down and grasp your left ankle. Lift your left foot up and place the sole of your foot against the inside of your right thigh. The purpose of the posture is to increase concentration; therefore it does not matter if the foot is all the way on the upper thigh or not as long because the participant is balancing on one foot.



Video 16.21: Tree pose









- Press the standing foot firmly into the floor. Find your focus point. Extend your spine and neck from the hips.
- Work your way up to balancing for 1 minute. Notice how active the ankles are in the posture. Don't worry if you fall out of the pose. Just gather yourself back and try again.
- · Breathe.

YOGA ETIQUETTE

As is the case in any physical activity, etiquette issues encourage proper and safe participation. Safety of you and your fellow students is paramount. In a yoga class, the safety of the teaching and learning environment is a shared responsibility between instructor and participant. Class rules and expectations should be discussed, posted, and practiced. When safety rules are violated, there is a potential for injury to both instructor and participant. Etiquette issues include:

Participate quietly. It is important to be silent throughout yoga practice time. You should feel free to ask your instructor questions, but please refrain from unnecessary chatter. Focus on the sound of your breathing; a quiet environment will help you do that successfully.

Arrive and leave on time. Because yoga sessions typically begin and end with quiet time, it is important that you arrive to class on time and to not leave early, which may cause a disruption.

Dress appropriately. Dressing inappropriately for yoga class may result in injury or exposure. To safely practice yoga, you must be able to move freely and without restriction. You should dress in clothing that allows for full physical participation without hindering movement or creating potential safety hazards. Appropriate dress would include comfortable shorts, shirts, or sweat suits. You should also practice without shoes in bare feet, as stocking feet can slide on the floor, creating potentially unsafe situations.

Respect others' personal space. The yoga mat is considered one's personal space. Please refrain from walking on others' mats when you move around the classroom. Walking on someone else's mat with bare feet is also a hygiene issue.

Share responsibility. To enjoy yoga fully, practice yoga poses that are appropriate for your current fitness ability and any existing health conditions. There is no need to compete with others in class.

Keep equipment clean. It is important that yoga mats, blocks, or any other equipment be sanitized on occasion to ensure a hygienic environment.

GLOSSARY

Asana: Yoga position or yoga pose, also called yogasana.

Dristi: A soft gaze, focus, or awareness to keep you attentive to what your body is doing in relation to your breath and mind.

Hatha: Sun and moon, or active and receptive life forces.

Hatha yoga: The branch of yoga devoted to the practice of asana for health and physical discipline.











Namaste: A common greeting simply meaning, "I bow to you." Often used at the beginning and end of classes with hands in a palms-together position over chest.

Sun salutation: A flowing series of 12 asana.

Vinyasa: A series of postures or poses.

Yoga: A "yoking" or "union" in the sense of bringing together a harmonious relationship with the physical and spiritual aspects of self.

SUGGESTED READINGS

- Bermsa, D., and Visscher, M. *Yoga Games for Children: Fun and Fitness with Postures, Movements and Breath.* Alameda, CA: Hunter House, 2003.
- Brown, C. *Yoga: A System for Harmonizing the Mind, Body, and Spirit.* New York, NY: Parragon, 2002.
- Budy, K. The Women's Health Big Book of Yoga. Emmaus, PA. Rodale Press, 2012.
- Calhoun, Y., and Calhoun, M. *Create a Yoga Practice for Kids*. Santa Fe, NM: Sunstone Press, 2006.
- Christensen, A. *The American Yoga Association Beginner's Manual*. Whitby, ON: Fireside, 2002.
- Dykema, R. Yoga for Fitness and Wellness. Belmont, CA: Thomson, 2006.
- Fronske, H. *Teaching Cues for Sport Skills for Secondary School Students*. 5th ed. San Francisco, CA: Benjamin Cummings, 2010.
- Gerstein, N. Guiding Yoga's Light: Lessons for Yoga Teachers. Champaign, IL: Human Kinetics, 2008.
- Iyengar, B. K. S. Yoga: The Path to Holistic Health. London, UK: Dorling-Kindersley, 2001.
- Kaminoff, L. Yoga Anatomy. 2nd ed. Champaign, IL: Human Kinetics, 2012.
- Kirk, M., and Boon, B. Hatha Yoga Illustrated. Champaign, IL: Human Kinetics, 2006.
- Kraines, M., and Sherman, B. *Yoga: For the Joy of It!* Sudbury, MA: Jones & Bartlett, 2010.
- Kurland, Z. Morning Yoga Workouts. Champaign, IL Human Kinetics, 2007.
- Shaw, B. J. YogaFit. 2nd ed. Champaign, IL: Human Kinetics, 2009.
- Solis, S. Mythic Yoga: Vishnu's Dream. Boulder, CO: The Mythic Yoga Studio, 2013.
- Sovik, R., and Anderson, S. *Yoga: Mastering the Basics*. Honesdale, PA: Himalayan Institute Press, 2008.
- Tummers, N. Teaching Yoga for Life. Champaign, IL. Human Kinetics, 2009.

WEBSITES

Yoga Alliance

www.yogaalliance.org

Yoga Asana







www.santosha.com/asanas

Yoga Basics

www.yogabasics.com

Yoga Directory

www.yogadirectory.com

Yoga Journal

www.yogajournal.com

Yoga Postures

www.yogasite.com/postures.html

Yoga Research

www.yrec.org

Yoga Routines

www.yogamazing.com



