



**SPRING GROVE AREA SCHOOL DISTRICT**



**PLANNED COURSE OVERVIEW**

<b>Course Title:</b> Strength Training for Sports Level 2 Spring <b>Grade Level(s):</b> 10 - 12 <b>Units of Credit:</b> .50 <b>Classification:</b> Elective		<b>Length of Course:</b> 15 cycles <b>Periods Per Cycle:</b> 6 <b>Length of Period:</b> 43 minutes <b>Total Instructional Time:</b> 64 hours	
<b>Course Description</b>			
<p>Strength Training for Sports Level 2 is a course designed to build on skills learned in level 1 class. During this class, students expand on personal fitness program development. This course will emphasize sport specific training and require that students perform various cardiovascular and strength training techniques during class meetings. Students learn advanced biological and anatomical principles through classroom experiences. Level 2 students use prior program design early in this course to develop personalized programs for physical performance improvements. Participants have altered days of strength/endurance and speed/agility training. Students spend most class times in active sports specific training.</p>			
<b>Instructional Strategies, Learning Practices, Activities, and Experiences</b>			
Development of Personalized Program Prescription of Exercise Technique Summary of Data	Internet Weight and Cardio Equipment Fitness Technology	Demonstration/Evaluation of Performance Application of Scientific Research	
<b>Assessments</b>			
Journals Test/Quiz	Physical Testing Article Reviewed Summary	Video and Audio Documentation	
<b>Materials/Resources</b>			
Books	Videos		

**Adopted:** 5/16/16

**Revised:** 10/2020

**Departmental Review:** 10/2017; 10/2018

Understanding Health-Related Fitness and Wellness	
CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
<p>Understand the five components of fitness</p> <p>Use performance test to develop baseline data of present levels of fitness</p> <p>Develop basic protocols to improve overall fitness levels and examine sport specific skills of fitness</p> <p>Naval Academy Fitness Level Evaluation</p> <p><u>Related Vocabulary</u>                      cardiovascular endurance                      flexibility                      muscular strength                      muscular endurance                      agility                      speed                      balance                      coordination                      spotting                      goal setting                      overtraining                      periodization</p>	<p>10.3.12.D - Evaluate the benefits, risks and safety factors associated with self-selected life-long physical activities.</p> <p>10.4.12.A - Evaluate and engage in an individualized physical activity plan that supports achievement of personal fitness and activity goals and promotes life-long participation.</p> <p>10.4.12.B - Analyze the effects of regular participation in a self-selected program of moderate to vigorous physical activities.</p> <p>10.4.12.C - Evaluate how changes in adult health status may affect the responses of the body systems during moderate to vigorous physical activity.</p> <p>10.4.12.D - Evaluate factors that affect physical activity and exercise preferences of adults.</p> <p>10.4.12.E - Analyze the interrelationships among regular participation in physical activity, motor skill improvement and the selection and engagement in lifetime physical activities.</p> <p>10.4.12.F - Assess and use strategies for enhancing adult group interaction in physical activities.</p> <p>10.5.12.A - Apply knowledge of movement skills, skill-related fitness and movement concepts to identify and evaluate physical activities that promote personal lifelong participation.</p> <p>10.5.12.B - Incorporate and synthesize knowledge of motor skill development concepts to improve the quality of motor skills.</p> <p>10.5.12.C - Evaluate the impact of practice strategies on skill development and improvement.</p> <p>10.5.12.D - Incorporate and synthesize knowledge of exercise principles, training principles and health and skill-related fitness components to create a fitness program for personal use.</p> <p>10.5.12.E - Evaluate movement forms for appropriate application of scientific and biomechanical principles.</p>

<b>Personalized Program Design</b>	
<b>CONTENT/KEY CONCEPTS</b>	<b>OBJECTIVES/STANDARDS</b>
<p>Overload principle</p> <p>Principle of progression</p> <p>Principle of reversibility</p> <p>Components of the exercise prescription</p> <p>Develop an exercise program tailored to meet the objectives of the individual while considering the individuals age, health, fitness status, musculoskeletal condition and body composition</p> <p>Establish the minimum levels of physical activity required to achieve some of the health benefits of exercise</p> <p><u>Related Vocabulary</u></p> <p>overload</p> <p>progression</p> <p>reversibility</p> <p>warm-up</p> <p>cool down</p> <p>exercise</p> <p>goals</p> <p>modes of exercise</p> <p>fitness status</p> <p>musculoskeletal condition</p> <p>body composition</p> <p>exercise threshold</p> <p>exercise prescription</p> <p>individualized</p> <p>recuperation</p>	<p>10.3.12.B - Analyze and apply strategies for the management of injuries.</p> <p>10.3.12.D - Evaluate the benefits, risks and safety factors associated with self-selected life-long physical activities.</p> <p>10.4.12.A - Evaluate and engage in an individualized physical activity plan that supports achievement of personal fitness and activity goals and promotes life-long participation.</p> <p>10.4.12.B - Analyze the effects of regular participation in a self-selected program of moderate to vigorous physical activities.</p> <p>10.4.12.C - Evaluate how changes in adult health status may affect the responses of the body systems during moderate to vigorous physical activity.</p> <p>10.4.12.D - Evaluate factors that affect physical activity and exercise preferences of adults.</p> <p>10.4.12.E - Analyze the interrelationships among regular participation in physical activity, motor skill improvement and the selection and engagement in lifetime physical activities.</p> <p>10.4.12.F - Assess and use strategies for enhancing adult group interaction in physical activities.</p> <p>10.5.12.A - Apply knowledge of movement skills, skill-related fitness and movement concepts to identify and evaluate physical activities that promote personal lifelong participation.</p> <p>10.5.12.B - Incorporate and synthesize knowledge of motor skill development concepts to improve the quality of motor skills.</p> <p>10.5.12.C - Evaluate the impact of practice strategies on skill development and improvement.</p> <p>10.5.12.D - Incorporate and synthesize knowledge of exercise principles, training principles and health and skill-related fitness components to create a fitness program for personal use.</p> <p>10.5.12.E - Evaluate movement forms for appropriate application of scientific and biomechanical principles.</p>

<b>Cardiorespiratory Fitness</b>	
<b>CONTENT/KEY CONCEPTS</b>	<b>OBJECTIVES/STANDARDS</b>
<p>Understand the benefits of cardiorespiratory fitness</p> <ul style="list-style-type: none"> <li>• Lower risk of disease</li> <li>• Reduce risk of type II diabetes</li> <li>• Lower blood pressure</li> <li>• Increased bone density</li> <li>• Increased energy</li> <li>• Increased feeling of well-being</li> <li>• Improved self-esteem</li> <li>• Increased muscle tone and endurance</li> <li>• Easier weight control</li> <li>• Improved sleep</li> </ul> <p>Adenosine triphosphate (ATP) – Required for muscular contraction, can be produced by two systems</p> <ul style="list-style-type: none"> <li>• Anaerobic</li> <li>• Aerobic</li> </ul> <p>Define cardiorespiratory system</p> <p>Understand cardiac output, systolic blood pressure, and heart rate increase as a function of exercise intensity</p> <p>Understand initial health status for improving present levels of fitness</p> <p>Understand three phases of cardiorespiratory fitness</p> <ul style="list-style-type: none"> <li>• Starter phase</li> <li>• Low progression phase</li> <li>• Maintenance phase</li> </ul>	<p>10.3.12.D - Evaluate the benefits, risks and safety factors associated with self-selected life-long physical activities.</p> <p>10.4.12.A - Evaluate and engage in an individualized physical activity plan that supports achievement of personal fitness and activity goals and promotes life-long participation.</p> <p>10.4.12.B - Analyze the effects of regular participation in a self-selected program of moderate to vigorous physical activities.</p> <p>10.4.12.C - Evaluate how changes in adult health status may affect the responses of the body systems during moderate to vigorous physical activity.</p> <p>10.4.12.D - Evaluate factors that affect physical activity and exercise preferences of adults.</p> <p>10.4.12.E ~ Analyze the interrelationships among regular participation in physical activity, motor skill improvement and the selection and engagement in lifetime physical activities.</p> <p>10.4.12.F ~ Assess and use strategies for enhancing adult group interaction in physical activities.</p> <p>10.5.12.A ~ Apply knowledge of movement skills, skill-related fitness and movement concepts to identify and evaluate physical activities that promote personal lifelong participation.</p> <p>10.5.12.B ~ Incorporate and synthesize knowledge of motor skill development concepts to improve the quality of motor skills.</p> <p>10.5.12.C ~ Evaluate the impact of practice strategies on skill development and improvement.</p> <p>10.5.12.D ~ Incorporate and synthesize knowledge of exercise principles, training principles and health and skill-related fitness components to create a fitness program for personal use.</p> <p>10.5.12.E ~ Evaluate movement forms for appropriate application of scientific and biomechanical principles.</p> <p>10.5.12.F ~ Analyze the application of game strategies for different categories of physical activities.</p>

<b>Cardiorespiratory Fitness (continued)</b>	
<b>CONTENT/KEY CONCEPTS</b>	<b>OBJECTIVES/STANDARDS</b>
<p>Understanding that aerobic exercise results in improvement of cardiorespiratory fitness and muscular endurance that can result in reduction in percent of body fat</p> <p><u>Related Vocabulary</u>                      aerobic                      anaerobic                      cardiorespiratory fitness                      cardiovascular fitness                      blood pressure                      adenosine triphosphate (ATP)                      diabetes                      systolic blood pressure                      heart rate                      circulatory system                      VO<sub>2</sub> max (maximal oxygen consumption)                      muscular contraction                      muscular endurance                      muscular strength</p>	

<b>Strength Training</b>	
<b>CONTENT/KEY CONCEPTS</b>	<b>OBJECTIVES/STANDARDS</b>
<p>Strength training can</p> <ul style="list-style-type: none"> <li>• Reduce low back pain</li> <li>• Reduce the incidence of exercise-related injuries</li> <li>• Decrease the incidence of osteoporosis</li> <li>• Aid in the maintenance of functional capacity</li> </ul> <p>Muscular Strength – the amount of weight that an individual can lift during one maximal effort</p> <p>Skeletal Muscles</p> <ul style="list-style-type: none"> <li>• Composed of a collection of fibers and are attached by bones by tendons</li> <li>• Muscular contraction results in the tendons pulling on the bone, causing movement</li> </ul> <p>Two primary physiological factors determine the amount of force that can be generated by a muscle</p> <ul style="list-style-type: none"> <li>• Size of muscle</li> <li>• Number of muscle fibers recruited</li> </ul> <p>Muscle Size – increased primarily because of an increase in fiber size (hypertrophy)</p> <p>Research has shown that strength training can also promote the formation of new muscle fibers (hyperplasia).</p> <p>Overload Principal – a muscle will increase in strength and/or endurance only when it works against a workload such as free weights or weight machines</p>	<p>10.3.12.D - Evaluate the benefits, risks and safety factors associated with self-selected life-long physical activities.</p> <p>10.4.12.A - Evaluate and engage in an individualized physical activity plan that supports achievement of personal fitness and activity goals and promotes life-long participation.</p> <p>10.4.12.B - Analyze the effects of regular participation in a self-selected program of moderate to vigorous physical activities.</p> <p>10.4.12.C - Evaluate how changes in adult health status may affect the responses of the body systems during moderate to vigorous physical activity.</p> <p>10.4.12.D - Evaluate factors that affect physical activity and exercise preferences of adults.</p> <p>10.4.12.E - Analyze the interrelationships among regular participation in physical activity, motor skill improvement and the selection and engagement in lifetime physical activities.</p> <p>10.4.12.F – Assess and use strategies for enhancing adult group interaction in physical activities.</p> <p>10.5.12.A - Apply knowledge of movement skills, skill-related fitness and movement concepts to identify and evaluate physical activities that promote personal lifelong participation.</p> <p>10.5.12.B – Incorporate and synthesize knowledge of motor skill development concepts to improve the quality of motor skills.</p> <p>10.5.12.C – Evaluate the impact of practice strategies on skill development and improvement.</p> <p>10.5.12.D – Incorporate and synthesize knowledge of exercise principles, training principles and health and skill-related fitness components to create a fitness program for personal use.</p> <p>10.5.12.E – Evaluate movement forms for appropriate application of scientific and biomechanical principles.</p> <p>10.5.12.F – Analyze the application of game strategies for different categories of physical activities.</p>

<b>Strength Training (continued)</b>	
<b>CONTENT/KEY CONCEPTS</b>	<b>OBJECTIVES/STANDARDS</b>
<p>Isokinetic Exercises – require use of machines that govern the speed of movement during the muscle contraction throughout the range of motion</p> <p>Strength training programs</p> <ul style="list-style-type: none"> <li>• Starter phase</li> <li>• Slow progression phase</li> <li>• Maintenance phase</li> </ul> <p><u>Related Vocabulary</u></p> <p>muscular strength                      muscular endurance                      muscle fiber                      contraction                      tendon                      bone                      muscles of the human body                      isometric                      isokinetic                      isotonic                      hypertrophy                      hyperplasia                      free weight</p>	

<b>Flexibility</b>	
<b>CONTENT/KEY CONCEPTS</b>	<b>OBJECTIVES/STANDARDS</b>
<p>Flexibility – the range of motion of a joint</p> <p>Improved flexibility results in</p> <ul style="list-style-type: none"> <li>• Increased joint mobility</li> <li>• Prevention of low back pain problems</li> <li>• Efficient body movement</li> <li>• Improved posture</li> <li>• Personal appearance</li> </ul> <p>Five structural and physiological limits to flexibility</p> <ul style="list-style-type: none"> <li>• Bone</li> <li>• Muscle structures within the joint capsule</li> <li>• Tendons that connect muscle to bones</li> <li>• Connective tissue that surrounds joints and skin</li> </ul> <p>If muscle spindles are suddenly stretched, they respond by initiating a stretch reflex that causes the muscle to contract. However, if muscles and tendons are stretched slowly, the stretch reflex can be avoided.</p> <p>Static vs. Dynamic</p> <p>Proprioceptive neuromuscular facilitation (PNF) combines stretching with alternative contraction and relaxation of muscles to improve flexibility.</p> <p>Functional movement screening</p>	<p>10.3.12. D - Evaluate the benefits, risks and safety factors associated with self-selected life-long physical activities.</p> <p>10.4.12. A - Evaluate and engage in an individualized physical activity plan that supports achievement of personal fitness and activity goals and promotes life-long participation.</p> <p>10.4.12. B - Analyze the effects of regular participation in a self-selected program of moderate to vigorous physical activities.</p> <p>10.4.12. C - Evaluate how changes in adult health status may affect the responses of the body systems during moderate to vigorous physical activity.</p> <p>10.4.12. D - Evaluate factors that affect physical activity and exercise preferences of adults.</p> <p>10.4.12. E - Analyze the interrelationships among regular participation in physical activity, motor skill improvement and the selection and engagement in lifetime physical activities.</p> <p>10.4.12. F - Assess and use strategies for enhancing adult group interaction in physical activities.</p> <p>10.5.12. A - Apply knowledge of movement skills, skill-related fitness and movement concepts to identify and evaluate physical activities that promote personal lifelong participation.</p> <p>10.5.12. B - Incorporate and synthesize knowledge of motor skill development concepts to improve the quality of motor skills.</p> <p>10.5.12. C - Evaluate the impact of practice strategies on skill development and improvement.</p> <p>10.5.12. D - Incorporate and synthesize knowledge of exercise principles, training principles and health and skill-related fitness components to create a fitness program for personal use.</p> <p>10.5.12. E - Evaluate movement forms for appropriate application of scientific and biomechanical principles.</p> <p>10.5.12. F - Analyze the application of game strategies for different categories of physical activities.</p>



Flexibility (continued)	
CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
<p> <u>Related Vocabulary</u>                      flexibility                      joint                      posture                      static                      dynamic                      ballistic                      proprioceptive neuromuscular facilitation (PNF)                      mobility                      reflex                      functional movement systems (FMS)                 </p>	

<b>Nutrition and Fitness</b>	
<b>CONTENT/KEY CONCEPTS</b>	<b>OBJECTIVES/STANDARDS</b>
<p>Nutrition - The study of food and its relationship to health and disease</p> <p>A well-balanced diet - composed of a variety of nutrients</p> <p>The basic goals of developing good nutritional habits are to maintain ideal body weight.</p> <p>Intensity of exercise dictates the relative proportions of fat and carbohydrates that are consumed as fuel during exercise. The lower the intensity of the exercises, the more fat is used as fuel; the greater the intensity, the more carbohydrates are used as fuel.</p> <p><u>Related Vocabulary</u>                      nutrient                      carbohydrate                      fat                      water                      protein                      supplement                      calorie                      vitamin                      diet</p>	<p>10.1.12.A - Evaluate factors that impact growth and development during adulthood and late adulthood.</p> <p>10.1.12.B - Evaluate factors that impact the body systems and apply protective/preventive strategies.</p> <p>10.1.12.C - Analyze factors that impact nutritional choices of adults.</p> <p>10.1.12.E - Identify and analyze factors that influence the prevention and control of health problems.</p> <p>10.2.12.A - Evaluate health care products and services that impact adult health practices.</p> <p>10.2.12.B - Assess factors that impact adult health consumer choices.</p> <p>10.2.12.D - Examine and apply a decision-making process to the development of short and long-term health goals.</p> <p>10.2.12.E - Analyze the interrelationship between environmental factors and community health.</p> <p>10.3.12.D - Evaluate the benefits, risks and safety factors associated with self-selected life-long physical activities.</p> <p>10.4.12.A - Evaluate and engage in an individualized physical activity plan that supports achievement of personal fitness and activity goals and promotes life-long participation.</p> <p>10.4.12.B - Analyze the effects of regular participation in a self-selected program of moderate to vigorous physical activities.</p> <p>10.4.12.C - Evaluate how changes in adult health status may affect the responses of the body systems during moderate to vigorous physical activity.</p>

<b>Fitness Activities</b>	
<b>CONTENT/KEY CONCEPTS</b>	<b>OBJECTIVES/STANDARDS</b>
<p>Specific exercises that build cardiorespiratory endurance</p> <p>Specific exercises/workouts that build muscular strength and endurance</p> <p>Specific exercises that increase flexibility</p> <p>How to combine exercise to develop a cross-training program working on all forms of health related fitness</p> <p><u>Related Vocabulary</u></p> <p>free weight movement exercises</p> <ul style="list-style-type: none"> <li>• bench press</li> <li>• squat</li> <li>• clean</li> <li>• curl</li> <li>• military press</li> </ul> <p>weight loaded matching exercises</p> <ul style="list-style-type: none"> <li>• chest press</li> <li>• overhead press</li> <li>• leg extension</li> <li>• leg curl</li> </ul> <p>body weight exercises</p> <ul style="list-style-type: none"> <li>• pull up</li> <li>• sit-up</li> <li>• knee raise</li> </ul>	<p>10.3.12.D - Evaluate the benefits, risks and safety factors associated with self-selected life-long physical activities.</p> <p>10.4.12.A - Evaluate and engage in an individualized physical activity plan that supports achievement of personal fitness and activity goals and promotes life-long participation.</p> <p>10.4.12.B - Analyze the effects of regular participation in a self-selected program of moderate to vigorous physical activities.</p> <p>10.4.12.C - Evaluate how changes in adult health status may affect the responses of the body systems during moderate to vigorous physical activity.</p> <p>10.4.12.D - Evaluate factors that affect physical activity and exercise preferences of adults.</p> <p>10.4.12.E - Analyze the interrelationships among regular participation in physical activity, motor skill improvement and the selection and engagement in lifetime physical activities.</p> <p>10.4.12.F - Assess and use strategies for enhancing adult group interaction in physical activities.</p> <p>10.5.12.A - Apply knowledge of movement skills, skill-related fitness and movement concepts to identify and evaluate physical activities that promote personal lifelong participation.</p> <p>10.5.12.B - Incorporate and synthesize knowledge of motor skill development concepts to improve the quality of motor skills.</p> <p>10.5.12.C - Evaluate the impact of practice strategies on skill development and improvement.</p> <p>10.5.12.D - Incorporate and synthesize knowledge of exercise principles, training principles and health and skill-related fitness components to create a fitness program for personal use.</p> <p>10.5.12.E - Evaluate movement forms for appropriate application of scientific and biomechanical principles.</p> <p>10.5.12.F - Analyze the application of game strategies for different categories of physical activities.</p>

Fitness Activities (continued)	
CONTENT/KEY CONCEPTS	OBJECTIVES/STANDARDS
<p>cardiorespiratory endurance machines</p> <ul style="list-style-type: none"> <li>• treadmill</li> <li>• stationary bike</li> <li>• rower</li> <li>• arc trainer</li> <li>• elliptical</li> </ul> <p>plyometric exercises dumb bell barbell target heart rate</p>	

<b>Using Pre-Established Programs For Sport Training Needs</b>	
<b>CONTENT/KEY CONCEPTS</b>	<b>OBJECTIVES/STANDARDS</b>
<p>Specific programs presently advertised through popular media</p> <p>Examine cost vs. effectiveness</p> <p>Explore data support of specific popular programs</p> <p><u>Related Vocabulary</u>                      Power 90 Extreme (P90X)                      cost effectiveness                      interval training                      medicine ball                      kettle bell                      stability ball                      resistance bands                      yoga                      pilates                      insanity training                      TRX training aids</p>	<p>10.2.12.A - Evaluate health care products and services that impact adult health practices.</p> <p>10.2.12.B - Assess factors that impact adult health consumer choices.</p> <p>10.4.12.A - Evaluate and engage in an individualized physical activity plan that supports achievement of personal fitness and activity goals and promotes life-long participation.</p> <p>10.4.12.B - Analyze the effects of regular participation in a self-selected program of moderate to vigorous physical activities.</p> <p>10.4.12.C - Evaluate how changes in adult health status may affect the responses of the body systems during moderate to vigorous physical activity.</p> <p>10.4.12.D - Evaluate factors that affect physical activity and exercise preferences of adults.</p> <p>10.4.12.E - Analyze the interrelationships among regular participation in physical activity, motor skill improvement and the selection and engagement in lifetime physical activities.</p> <p>10.4.12.F - Assess and use strategies for enhancing adult group interaction in physical activities.</p> <p>10.5.12.A - Apply knowledge of movement skills, skill-related fitness and movement concepts to identify and evaluate physical activities that promote personal lifelong participation.</p> <p>10.5.12.B - Incorporate and synthesize knowledge of motor skill development concepts to improve the quality of motor skills.</p> <p>10.5.12.C - Evaluate the impact of practice strategies on skill development and improvement.</p> <p>10.5.12.D - Incorporate and synthesize knowledge of exercise principles, training principles and health and skill-related fitness components to create a fitness program for personal use.</p> <p>10.5.12.E - Evaluate movement forms for appropriate application of scientific and biomechanical principles.</p> <p>10.5.12.F - Analyze the application of game strategies for different categories of physical activities.</p>

<b>Sport Specific Training Programming and Practice</b>	
<b>CONTENT/KEY CONCEPTS</b>	<b>OBJECTIVES/STANDARDS</b>
<p>Sport specific exercises and movements should be incorporated into fitness programming.</p> <p>Adapt programming to meet the needs of in-season competitions</p> <p>Cycling to prevent plateauing - how to best modify a program over time</p> <p>Develop bench marks for improvement.</p> <p>Goal setting with sport specific testing protocols</p> <p><u>Related Vocabulary</u>                      sport or activity choice                      speed                      agility                      coordination                      strength                      endurance                      body composition                      overload                      progression                      plateau                      reps                      sets                      movement type                      frequency                      intensity                      time                      volume                      pacing                      overtraining</p>	<p>10.4.12.A - Evaluate and engage in an individualized physical activity plan that supports achievement of personal fitness and activity goals and promotes life-long participation.</p> <p>10.4.12.B - Analyze the effects of regular participation in a self-selected program of moderate to vigorous physical activities.</p> <p>10.4.12.C - Evaluate how changes in adult health status may affect the responses of the body systems during moderate to vigorous physical activity.</p> <p>10.4.12.D - Evaluate factors that affect physical activity and exercise preferences of adults.</p> <p>10.4.12.E - Analyze the interrelationships among regular participation in physical activity, motor skill improvement and the selection and engagement in lifetime physical activities.</p> <p>10.4.12.F - Assess and use strategies for enhancing adult group interaction in physical activities.</p> <p>10.5.12.A - Apply knowledge of movement skills, skill-related fitness and movement concepts to identify and evaluate physical activities that promote personal lifelong participation.</p> <p>10.5.12.B - Incorporate and synthesize knowledge of motor skill development concepts to improve the quality of motor skills.</p> <p>10.5.12.C - Evaluate the impact of practice strategies on skill development and improvement.</p> <p>10.5.12.D - Incorporate and synthesize knowledge of exercise principles, training principles and health and skill-related fitness components to create a fitness program for personal use.</p> <p>10.5.12.E - Evaluate movement forms for appropriate application of scientific and biomechanical principles.</p> <p>10.5.12.F - Analyze the application of game strategies for different categories of physical activities.</p>