STRENGTH TRAINING AND FITNESS I, II and III

Essential Discipline Goals

Develop an acceptable level of fitness and an understanding of the components of fitness and an appreciation of the life-long value of fitness through personalized physical education activities

Develop through a purposeful physical education experience a more positive self-concept appropriate to social and emotional behaviors, self-direction and an appreciation of individual differences

Develop physical skills and acquire knowledge of efficient and creative movement through participation in a sequential program of varied activities and develop an appreciation for the value of this type of movement Develop an awareness of safety practices and procedures

Elective

PE.STF. Strength Training and Fitness I, II and III

Grades 10-12

Standard Indicators

PE.STF.10. Exercise Physiology—Students will demonstrate an ability to use scientific principles to design and participate in a regular, moderate to vigorous physical activity program that contributes to personal health and enhances cognitive and physical performance on a variety of academic, recreational and life tasks.

PE.STF.10.01 Identify strength training components and the role they play in the total body fitness

PE.STF.10.01.a	Identify personal training needs PE 1.12.2
PE.STF.10.01.b	Formulate an individualized training
	program PE 1.12.3
PE.STF.10.01.c	Assess individual progress
PE.STF.10.01.d	Describe and make strength training and
	sport application and connections for the
	five parts of health-related fitness
	(flexibility, body fatness, cardiovascular
	fitness, strength, muscular endurance) PE
	1.12.4, PE 5.12.1

PE.STF.10.01.e	Describe and make strength training and	
1 12.5 1 1.10.01.6	sport application and connections for the six	
	parts of skill-related fitness (agility, balance,	
	coordination, power, reaction time, speed)	
	PE 5.12.1	
	an understanding of the knowledge and	
	l for strength training and fitness	
PE.STF.10.02.a	Demonstrate knowledge of weight training	
	and fitness components as required through daily participation—practical and written	
	test	
PE.STF.10.02.b	Develop an understanding of procedures and	
	methods for arriving at starting point for	
	workouts	
PE.STF.10.02.c	Develop an understanding of workout	
	progression as it relates to an individualized	
	program based on one's improvement, needs	
PE.STF.10.02.d	and physiological development PE 1.12.3	
PE.51F.10.02.u	Understand components and progressions of various strength and fitness programs	
PE.STF.10.02.e	Demonstrate an understanding of the	
	components of strength and fitness programs	
	to be able to develop programs that serve the	
	varied and specific purposes of strength	
	training	
PE.STF.10.02.f	Demonstrate knowledge of strength training	
	and physical fitness terms during class discussions and on written tests PE 1.12.4	
PE STE 10.03 Develop and		
PE.STF.10.03 Develop and apply knowledge necessary to understand the effects of performance enhancing substances		
PE.STF.10.03.a	Distinguish between accepted medical uses	
	for steroids, illegal steroid use, and other	
	performance enhancing substances	
PE.STF.10.03.b	Describe various methods of administration	
PE.STF.10.03.c	of performance enhancing substances	
FE.51F.10.03.C	Discuss why someone would use performance enhancing substances	
PE.STF.10.03.d	Identify methods of detecting performance	
	enhancing drug use	
PE.STF.10.03.e	Identify warning signals of performance	
	enhancing drug use	
PE.STF.10.03.f	Recognize the long and short term effects of	
	performance enhancing drug use of males and females	
PE.STF.10.03.g	and remaies Demonstrate knowledge of refusal skills	
1 L.5 11.10.03.g	Demonstrate knowledge of refusal skills	

PE.STF.20. Biomechanical Principles—Students will improve their movement effectiveness and safety by applying the principles of biomechanics to generate and control force.

PE.STF.20.01 Apply correct biomechanical and physiological principles to exercise and training

	to exercise an	iu training	
	PE.STF.20.01.a	Demonstrate correct lifting techniques PE 4.12.3	
	PE.STF.20.01.b	List injuries related to incorrect lifting techniques	
	PE.STF.20.01.c	Relate exercise to injury prevention	
	PE.STF.20.01.d	Explain the importance of warming up and	
		cooling down as related to exercise PE 5.12.4	
	PE.STF.20.01.e	Discuss and apply basic training principles	
	PE.STF.20.01.f	Explain frequency, intensity and time (FIT	
		formula) as it applies to training and fitness	
	PE.STF.20.01.g	Locate pulse (carotid, radical, brachial)	
	PE.STF.20.01.h	Calculate heart rates as it relates to exercise,	
		target, resting, maximum and recovery	
	PE.STF.20.02 Evaluate nutr	itional needs conducive to individual fitness	
	needs		
	PE.STF.20.02.a	Review basic principles of nutrition as they	
		relate to strength training performance PE	
		1.12.5	
	PE.STF.20.02.b	Discuss eating disorders and the health	
		problems they cause (Anorexia	
		Nervosa/Bulimia)	
	PE.STF.20.02.c	Analyze an individual weight management	
		program PE 1.12.5	
	PE.STF.20.02.d	Describe common food myths	
	PE.STF.20.02.e	Understand the chemistry of nutrition and	
		exercise	
	PE.STF.20.02.f	Understand ergogenic aids as a performance	
		enhancement PE 1.2.7	
	PE.STF.20.03 Relate basic anatomy to exercise		
	PE.STF.20.03.a	Identify muscle groups and bones	
	PE.STF.20.03.b	Identify specific muscles as they relate to	
		individual exercise and strength training	
		activities PE 2.12.3	
PE.STF.30.	Social Psychological Princip	bles—The student will	
	demonstrate skills essential for developing self-efficacy,		
	fostering a sense of community, and working effectively		
	with others in physical activity settings.		
	PE.STF.30.01 Demonstrate	an appreciation of individual differences and	
	the positive re	elationships that can be established and	
anhanced through physical activity experiences			

enhanced through physical activity experiences

	Value participation in activities with individuals of varying skill levels, cultural backgrounds, race or gender PE 3.12.1 Adjust performance relative to differences among individuals in characteristics such as to strength, speed, size, and skill level PE 3.12.2 ocially acceptable behaviors including ration, responsibility, honesty and a positive	
competitive sp		
PE.STF.30.02.a	Value peer assistance by using classmates'	
	comments constructively in an effort to enhance performance PE 2.12.1	
PE.STF.30.02.b	Support peer leadership activities	
PE.STF.30.02.c	Encourage others to display good sportsmanship as leaders, participants and spectators	
PE.STF.30.02.d	Demonstrate a competitive spirit that strives to win fairly and accept defeat rationally	
PE.STF.30.02.e	Respond appropriately to ethical and unethical behaviors demonstrated in the activity setting PE 3.12.6	
PE.STF.30.03 Relate the effects of a training program to stress		
management		
PE.STF.30.03.a	Define the term "stress"	
PE.STF.30.03.b	Compare good and bad stress	
PE.STF.30.03.c	Discuss the emotional, physical and social effects of stress	
PE.STF.30.03.d	Cite coping mechanisms for stress prevention/management PE 3.12.3	
PE.STF.30.03.e	Name sources of support	
PE.STF.30.03.f	Understand strength training as a vehicle for stress reduction	

- **PE.STF.40.** Motor Learning Principles—Students will explain and demonstrate how motor skills are learned and proficiency developed through frequent practice opportunities in which skills are repeatedly performed correctly in a variety of situations.
- **PE.STF.50.** Physical Activity—Students will participate in a regular, personalized purposeful program of physical activity to gain health and cognitive/academic benefits. They will learn and utilize principles of exercise physiology, social psychology and biomechanics to design a safe and effective program consistent with their health, performance and fitness goals.

PE.STF.50.01 Participate in strength training activities that can continue through life

PE.STF.50.01.a	Participate in different methods of training
	designed to strengthen the total body PE
	5.12.2
PE.STF.50.01.b	Participate in an individualized training
	program PE 1.12.3
PE.STF.50.01.c	Identify the benefits attained through a
	comprehensive strength training program
PE.STF.50.01.d	Discuss the term "fitness for life"
PE.STF.50.01.e	Participate in a regular daily training
	program PE 5.12.5
PE.STF.50.02 Develop and a	apply appropriate safety practices related to
strength traini	ng and specific activities within the
environment	
PE.STF.50.02.a	Recognize and demonstrate proper warm-up
	techniques PE 5.12.4
PE.STF.50.02.b	Recognize and demonstrate proper lifting
	techniques PE 6.12.1
PE.STF.50.02.c	Recognize and demonstrate proper spotting
	and assisting techniques
PE.STF.50.02.d	Recognize and demonstrate proper
	maintenance of equipment and facility

PE.STF.60. Skillfullness—Students will enhance their ability to perform a variety of skills and applications by developing fundamental movement skills, creating original skill combinations, combining skills effectively in skill themes, and applying skills to a variety of recreational and daily life experiences.

PE.STF.60.01 Demonstrate the fundamental components of strength

training	
PE.STF.60.01.a	Demonstrate appropriate warm-up exercises
	PE 5.12.4
PE.STF.60.02.b	Demonstrate fundamental techniques of
	lifting PE 6.12.1
PE.STF.60.02.c	Demonstrate proper spotting techniques
PE.STF.60.02.d	Apply various training regimens intended to
	develop strength, endurance and power
	through a variety of training routines PE
	6.12.4
PE.STF.60.02.e	Develop an individualized strength training
	program based on individual needs and
	goals
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