| ***Physical Education Grade 12 Unit 5: Fitness and Strength Conditioning (Weight Training)******November***  |
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| **Targeted Standards** **2020 New Jersey Student Learning Standards – Comprehensive Health and Physical Education** **2.2 Physical Wellness by the End of Grade 12** **Movement Skills and Concepts** Advanced technique and concepts will elevate a student's confidence, performance, skills, and participation in physical activity (e.g., games, sports, aerobics, fitness activities). • 2.2.12.MSC.1: Explain and demonstrate ways to apply movement skills from one game, sport, aerobics, or recreational activity to another including striking skills (e.g., tennis, badminton, ping pong, racquetball, pickleball). • 2.2.12.MSC.2: Analyze application of force and motion (e.g., weight transfer, power, speed, agility, range of motion) and modify movement to impact performance. The quality of feedback from others, self assessment as well as effort and repetition influences movement skills, concepts, and performance. • 2.2.12.MSC.3: Design, lead and critique rhythmic and physical activity that includes variations in time, space, force, flow, and relationships (e.g., creative, cultural, social, aerobics dance, fitness). Individual and team execution requires interaction, respect, effort, and a positive attitude. • 2.2.12.MSC.4: Analyze etiquette, responsibilities, and preparation of players, officials, trainers, and other participants and recommend strategies to improve their performance, participation, and behavior. • 2.2.12.MSC.5: Develop rule changes to existing games, sports, and activities that enhance participation, safety, and enjoyment. **Physical Fitness** Physical and emotional growth often relies on taking personal responsibility for developing and maintaining physical fitness levels that also provide opportunities for self expression, enjoyment, and emotional satisfaction. • 2.2.12.PF.1: Compare the short- and long-term benefits of physical activity and the impact on wellness associated with physical, mental, emotional fitness through one's lifetime. • 2.2.12.PF.2: Respect and appreciate all levels of ability and encourage with care during all physical activities. • 2.2.12.PF.3: Design and implement a personal fitness plan, using evidence and evaluate how that reflects knowledge and application of fitness-training principles (FITT) and the components of skill related fitness. • 2.2.12.PF.4: Determine the role of genetics, age, nutrition, sleep, the environment, and exercise type on body composition and personal health (e.g., anabolic steroids, human growth hormones, stimulants). • 2.2.12.PF.5: Analyze fitness knowledge in strength, conditioning, agility, and the physiological responses of the energy systems effects on the mind and body before, during, and after physical fitness activities. **Lifelong Fitness** Healthy habits and behaviors are created by personal learning experiences, knowledge, beliefs, and goals towards living and maintaining a healthy lifestyle of fitness, self-expression, social interaction, and enjoying movement in a safe and healthy environment (e.g., golf, tennis, badminton, martial arts, bowling, kayaking, ping-pong, cricket, hiking, biking, swimming). • 2.2.12.LF.1: Apply and share a movement and physical fitness vocabulary that is intrinsic to motivate oneself, to impact family, and others in a community. • 2.2.12.LF.2: Develop a sense of openness and willingness when participating in physical fitness activity to share and learn experiences from your own and other cultures. • 2.2.12.LF.3: Examine building to a level of fitness to successfully participate in a range of different physical activities during a lifetime. • 2.2.12.LF.4: Exhibit responsible social behavior by including and cooperating with classmates of all skill levels, assisting when needed, and collaborating respectfully to solve problems in groups, teams, and in pairs during physical activity. • 2.2.12.LF.5: Describe the social benefits gained from participating in physical activity (e.g., meeting someone, making friends, team work, building trust, experiencing something new). Community resources can support a lifetime of wellness to self and family members. • 2.2.12.LF.6: Implement a financial plan for participation in physical activity in the community for self and family members. • 2.2.12.LF.7: Analyze the current and future impact of globalization and technology on the influences of participation in sports, games, physical fitness activities, dance, gaming, outdoor adventure, viewing sports, and social and emotional connections. • 2.2.12.LF.8: Identify personal and community resources to explore career options related to physical activity and health. **Nutrition** The balance of food intake and exercise is a vitally important component of nutritional wellness, and is tempered by factors like age, lifestyle, and family history. • 2.2.12.N.1: Compare and contrast the nutritional trends, eating habits, and the impact of marketing foods on adolescents and young adults nationally and worldwide. • 2.2.12.N.2: Determine the relationship of nutrition and physical activity to weight loss, gain, and maintenance. • 2.2.12.N.3: Analyze the unique contributions of each nutrient class (e.g., fats, carbohydrates, protein, water, vitamins, minerals) to one’s health and fitness. • 2.2.12.N.4: Implement strategies and monitor progress in achieving a personal nutritional health plan. • 2.2.12.N.5: Research recent trends in plant based and organic food choices and industries that have shown an impact on lowering heart, cancer, diabetes, and other diseases.

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| **Rationale and Transfer Goals**: Weight training promotes self-confidence and accomplishment.  By gaining strength and endurance students will be more confident in their abilities.  By designing workout plans students can promote healthy activities for people outside of the school classroom.  All workouts can be modified for any individual to succeed in bettering their health |
| **Enduring Understandings:** * Mentally preparing for weight training can improve performance.
* Rules and regulations have an impact on the health and safety of participants.
* Poor form and technique can lead to injuries.
* Factors such as health status, interests, environmental conditions, and available time have impact on personal fitness.
* The impact of weight training in one’s health?
* Long term effects of weight training.
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| **Essential Questions**: * What is a set?
* What is a Rep?
* What are some different ways you can measure an individual’s fitness level?
* What are the basic components of physical fitness?
* What is muscle Endurance?
* What is muscle strength?
* How can weight training improve personal health?
* Name the essential muscle groups of the body?
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| **Content/Objectives** | **Instructional Actions** |
| **Content*****What students will know*** | **Skills*****What students will be able to do*** | **Activities/Strategies*****How we teach content and skills*** | **Evidence (Assessments)*****How we know students have learned*** |
| * Major muscle groups of the body.
* What exercises will work the appropriate body part.
* How to measure maximum strength.
* Proper form and technique for each exercise.
* Safety techniques and procedures.
* How to safely “spot” another classmate
 | * Employ strategies to improve communication and listening skills and assess their effectiveness.
* Engage in a variety of vigorous physical activities to enhance each component of fitness.
* Perform at a level needed to enhance cardiovascular fitness.
* Evaluate, monitor, and improve their fitness level.
* Be able to design and perform a weight training program
 | * Introduction to machines and exercises
* Students create workout plan
* Student implement workout plan
* circuit training
* Split routine
* Upper/lower body
* Anaerobic /Aerobic training
 | Outcomes related to personal lifting goalsWritten assessments for weightlifting safety, etc. |
| **Spiraling for Mastery**  |
| **Content or Skill for this Unit** | **Spiral Focus from Previous Unit** | **Instructional Activity** |
| * Can appropriately participate in activities that promote lifetime wellness and know these activities can include cardiorespiratory endurance, muscular strength, muscular endurance, body composition, and flexibility.
* Is able to incorporate communication, cooperation, and problem solving into their goal setting.
* Displays respectful behaviors towards all classmates
* Can pace to gain peak performance.
* Can set short and long term goals to improve performance in activity.
* Can recognize and perform exercises to increase strength and/or endurance
 | * Locomotive skills
* Flexibility
* Weight Lifting (pull vs push muscles)
 | * Daily Warm –Up activities

    Flexibility    Muscular Strength/Endurance            Sit ups           Push ups           Planks    Cardiovascular Endurance           High knees           Butt kicks                    Jumping Jacks                    Running                    Carioca                    Shuffle* Lap running/Walking
* Partner Pedometer Activities
* Weight lifting
* Circuit exercises

Jump rope |
| **21st Century Skills:** **CRP3. Attend to personal health and financial well-being.**Unit focus on personal healthCross-cutting discussions of financial costs and benefits to lifelong fitness**CRP6. Demonstrate creativity and innovation.**Creativity in development of workout plans for variety and maintaining interest**CRP11. Use technology to enhance productivity.**Use of online and mobile technology to support lifetime health and fitness goals **CRP12. Work productively in teams while using cultural global competence.**Students will work in small groups to create, problem solve, and participate in games**CRP4. Communicate clearly and effectively and with reason.*** all aspects of course
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| **Key resources:** * Conditioning weight room
* Excel sheets for recording workouts
* Sheets to create workouts and test them
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| **Interdisciplinary Connections****ELA****NJSLSA.R1**. Read closely to determine what the text says explicitly and to make logical inferences and relevant connections from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.**NJSLSA.R7.** Integrate and evaluate content presented in diverse media and formats, including visually and quantitatively, as well as in words.**RH.11-12.7. Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., visually, quantitatively, qualitatively, as well as in words) in order to address a question or solve a problem.** **RST.11-12.2.** Determine the central ideas, themes, or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.**RST.11-12.3.** Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.**RST.11-12.7.** Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.**NJSLSA.W4.** Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.**NJSLSA.W7.** Conduct short as well as more sustained research projects, utilizing an inquiry-based research process, based on focused questions, demonstrating understanding of the subject under investigation. * standards supporting written and print communication across all areas of the course

**Science****HS-LS1-3.** Plan and conduct an investigation to provide evidence that feedback mechanisms maintain homeostasis. [Clarification Statement: Examples of investigations could include heart rate response to exercise]**HS-LS2-3.** Construct and revise an explanation based on evidence for the cycling of matter and flow of energy in aerobic and anaerobic conditions.**HS-LS2-8.** Evaluate evidence for the role of group behavior on individual and species’ chances to survive and reproduce.* Connections to study of exercise physiology and associated anatomy
* Basic understanding of communicability of diseases in discussion of wellness

**Math****Creating Equations A -CED**A. Create equations that describe numbers or relationships. 1. Create equations and inequalities in one variable and use them to solve problems. *Include equations arising from linear and quadratic functions, and simple rational and exponential functions.***Modeling with Geometry G-MG**A. Apply geometric concepts in modeling situations. 1. Use geometric shapes, their measures, and their properties to describe objects (e.g., modeling a tree trunk or a human torso as a cylinder).**Interpreting Categorical and Quantitative Data S-ID N-ILN**A. Summarize, represent, and interpret data on a single count or measurement variable1. Represent data with plots on the real number line (dot plots, histograms, and box plots).**Making Inferences and Justifying Conclusions S-IC**B. Make inferences and justify conclusions from sample surveys, experiments, and observational studies* math processes related to fitness and health data, geometry in gameplay, and quantitative representations
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