







## **Autumn Term** (Half Term 1 & 2)

# **Sport**

Year 11

Name:	

Tutor: \_\_\_\_



### Year II Homework Timetable

Monday	English Task I	Ebacc Option A Task I	Option C Task I	
Tuesday	Sparx Science	Option B Modern Britain Task I Task I		
Wednesday	Sparx Maths	Science Task I	Option C Task 2	
Thursday	Ebacc Option A Task 2	Sparx Science	Option B Task 2	Sparx Maths
Friday	Modern Britain Task 2	Science Task 2	English Task 2	

### **Sparx Science**

- Complete 100% of their assigned homework each week Sparx Maths
- Complete 100% of their assigned homework each week

Option A (EBACC)
French
Geography
History

Option B		
Art		
Business Studies		
Catering		
Computer Science		
History		
Health & Social Care		
Music		
Sport		
IT		

Option C
Business Studies
Childcare
Catering
Drama
Geography
Health & Social Care
Triple Science
Sport

Half Term 1 (6 weeks) - Year 11			
Week / Date	Homework task 1 Cornell Notes	Homework task 2 Exam Question	
Week 2 11th September 2023	Cornell Notes on: Components of Physical Fitness	Question: Identify two physical components of fitness that are required for a midfielder in football and explain how they benefit their performance in a match. (4)	
Week 3 18th September 2023	Cornell Notes on: Components of Skill Related Fitness	<b>Question</b> : Identify two skill components of fitness that are required for a basketballer and explain how they benefit their performance in a match. (4)	
Week 4 25th September 2023	Cornell Notes on: The importance of fitness for successful participation in sport	<b>Question</b> : Identify a component of fitness that a marathon runner would require, and compare this to a component of fitness a 100m sprinter would require. (4)	
Week 5 2nd October 2023	Cornell Notes on: Principles of Training	<b>Question:</b> Identify and explain how an athlete might use each part of FITT to improve their running time. (4)	
Week 6 9th October 2023	Cornell Notes on: Exercise Intensity	<b>Question</b> : Jodie is 28 years old. Work out her maximum heart rate, then her upper and lower training thresholds. Show your workings out. (3)	
Week 7 16th October 2023	Cornell Notes on: Importance of fitness testing and requirements for administration of each fitness	<b>Question</b> : Identify and explain the four pre-test procedures required to complete before a fitness test. (4)	

test

Half Term 2 (8 weeks) - Year 11			
Week / Date	Homework task 1 Cornell Notes	Homework task 2 Exam Question	
Week 8 30th October 2023	Cornell Notes on: Fitness test methods for components of physical fitness	<b>Question</b> : Gymnasts require a wide range of movement for their events. Identify what flexibility fitness tests would be beneficial and the equipment required. (4)	
Week 9 6th November 2023	Cornell Notes on: Fitness test methods for components of skill-related fitness	Question: Table tennis requires quick reactions for their games. Identify what reaction time fitness tests would be beneficial and the equipment required. (4)	
Week 10 13th November 2023	Cornell Notes on: Fitness training methods for physical components of fitness	<b>Question</b> : 100m sprinters require speed to complete their race, identify and explain 3 training methods a 100m sprinter could use. (6)	
Week 11 20th November 2023	Mock Exams	Mock Exams	
Week 12 27th November 2023	Mock Exams	Mock Exams	
Week 13 4th December 2023	Cornell Notes on: Fitness training methods for skill-related components of fitness	<b>Question</b> : Long jumpers require power to complete their event, identify and explain how they could complete plyometric training to benefit their event. (4)	
Week 14 11th December 2023	Cornell Notes on: The effects of long-term fitness training on the body systems	<b>Question</b> : Identify and explain the long term muscular strength training effects a weight lifter would benefit from? (4)	
Week 15 18th December 2023	Cornell Notes on: Fitness programming to improve fitness and sports performance	<b>Question</b> : Identify and give examples of the two types of motivation a netball player may use. (4)	

Week 3 - Components of Skill Related Fitness
Skill related:  Coordination: The smooth flow of movement needed to perform a motor task efficiently (wasting as little energy as possible) and accurately (without going wrong).
<ul> <li>Agility:the time taken between a stimulus and the start of a response, useful in fast-paced sports to make quick decisions about what to do.</li> </ul>
<ul> <li>Reaction time: The time that it takes for a sports performer to respond to a stimulus and initiate (start) their response.</li> </ul>
Balance: the ability to maintain centre of mass over a base of support, useful to maintain positions in performance sports (static balance) or when on the move ir any other sporting situation (dynamic balance).
Power: the product of speed and strength to allow for explosive movements in sport.

Week 4 - The importance of fitness for
successful participation in sport

### Week 5 - Principles of Training

#### Types of sports requiring specific components of fitness:

- Aerobic endurance events/sports lasting more 30 minutes
- Muscular endurance events/sports lasting more 30 minutes
- Muscular strength activities requiring force, e.g. throwing events
- Speed activities requiring fast movement, e.g. sprinting
- Flexibility activities requiring a wide range of movement around a joint, e.g. gymnastics, martial arts
- Body composition low body fat, e.g. gymnastics, high muscle mass, e.g. sprinters
- Power activities requiring explosive movement e.g. gymnastics, basketball
- Agility activities requiring quick changes of direction, e.g. dodging the opposition in a team game, freestyle skiing
- Reaction time any activity where a quick decision or response to a stimulus is needed
- Balance an activity requiring the control of the distribution of weight or to remain upright and steady
- Coordination any activity requiring the movement of two or more body parts and can include the use of sporting

#### The basic principles of training (FITT):

- Frequency: the number of training sessions completed over a period of time, usually per week
- Intensity: how hard an individual will train
- Time: how long an individual will train for
- Type: how an individual will train by selecting a training method to improve a specific component of fitness.

#### Additional principles of training (SPORVAIR):

- Specificity definition: training should meet the needs of the sport, or physical/skill-related fitness goals to be developed
- Progressive overload definition: in order to progress, training needs to be demanding enough to cause the body to adapt, improving performance
- Reversibility definition: if training stops, or the intensity of training is lowered, fitness gains from training are lost
- Variation definition: altering types of training to avoid boredom and maintain motivation to train
- Adaptation definition: changes to the body due to increased training loads
- Individual differences/needs definition: training should meet the needs of an individual
- Rest and recovery definition: to allow the body to recover and adapt.

### Week 6 - Exercise Intensity

## Week 7 - Importance of fitness testing and requirements for administration of each fitness test

Heart rate: The number of times the heart beats per minute (bpm)

Maximum heart rate - also called HR max

Equation: HR max = 220 – age (years)

e.g. the maximum heart rate of a 25 year old is 195 bpm

#### **Heart rate training zones:**

The target zone recommended to improve cardiorespiratory fitness is 60%-85% of HR max (a person's maximum heart rate).

#### Working out target zones:

- 1. Calculate maximum heart rate (HR max) HR max = 220 age (years)
- 2. Find upper training threshold = HR max X 0.85
- 3. Find lower training threshold = HR max X 0.60

e.g. 220 - 25 (age) = 195 bpm

 $195 \times 0.85 = 165.75 = 166$  bpm (upper training threshold)

 $195 \times 0.60 = 117$  bpm (lower training threshold)

Target zone = 117 bpm - 166 bpm

#### **The RPE BORG Scale**

The numbers on the scale represent the different levels of exercise intensity. The BORG can be used to estimate a person's heart rate HR (bpm) = RPE x 10

e.g. a perform says they are working extremely hard and give a RPE scale rating of 19 their estimated heart rate is: HR (bpm) = RPE X 10

You can also estimate a RPE scale/Borg scale rating from a heart rate (bpm): RPE scale = HR (bpm) ÷10.

### Free weight training reps and 1 rep max strength 15RM for muscular endurance %:

- Muscular endurance low load / high rep 50-60% 1RM / 20 reps
- Elastic strength (power) medium load / medium rep 75% 1RM / 12 reps
- Maximal strength high load / low rep 90% 1RM - 6 reps

Reasons for fitness testing:

- gives baseline data for monitoring/improving performance
- can design training programmes based on test results
- determine if training programmes are working
- results can give a performer something to aim for
- provide goal setting aims.

#### Pre-test procedures:

- calibration of equipment
- complete informed consent
- complete Physical Activity Readiness Questionnaire (PAR-Q)
- participant pre fitness test check e.g. prior exercise participation.

#### Reliability of test:

- consistency of results
- factors affecting reliability:
  - calibration of equipment
  - o motivation of the participant
  - conditions of the testing environment (inside versus outside conditions)
  - $\circ$  experience of the person administering the test
  - compliance with standardised test procedure.

Validity of results - this is affected by the administration and accuracy of the test by the testers.

#### Practicality:

- cost
- time taken to perform the test
- time taken to set up the test
- time taken to analyse data
- number of participants that can take part in the test at any time.

Week 8 - Fitness test methods for components of physical fitness	Week 9 - Fitness test methods for components of skill-related fitness
Aerobic endurance:  Multi-stage fitness test, also known as the bleep test (20 metre distance)  Equipment - Tape measure, MSFT recording or app, speakers/CD player, cones.  Yo-Yo test  Equipment - Tape measure, MSFT recording or app, speakers/CD player, cones.  Harvard step test  Equipment - metronome, stopwatch, ruler/tape measure, bench.  12-minute Cooper run or swim.  Equipment - stopwatch, whistle, cones, tape measure.  Muscular endurance:  One-minute press-up  One-minute sit-up  Timed plank test  Equipment - stopwatch and a mat  Flexibility:  Sit and reach test  Equipment - Sit and reach box, ruler or tape measure, mat  Calf muscle flexibility test  Equipment - Mat, wall  Shoulder flexibility test.  Equipment - 2m rope, tape measure  Speed:  30 metre sprint test  30 metre flying sprint.  Equipment - Cones, tape measure, stopwatch  Muscular strength:  Grip dynamometer  Equipment - handgrip dynamometer  Equipment - fixed or free weights  Body composition:  Body Mass Index (BMI)  Equipment - BIA machine  Waist to hip ratio.	Agility:  Illinois agility run test  Equipment - Tape measure, cones, stopwatch  T Test  Equipment - Tape measure, cones, stopwatch  Balance:  Stork stand test  Equipment - Stopwatch, mat  Y balance test  Tape measure/ruler, stopwatch, mat  Coordination:  Alternate-Hand Wall-Toss test  Tennis ball, stopwatch, tape measure, wall  Stick flip coordination test  60cm long stick, 2cm in diameter with tape or paint at one end.  Power:  Vertical jump test  Vertical jump test  Tape measure  Margaria-Kalamen power test  Tape measure, scales, cone, stairs, stopwatch  Reaction time:  Ruler drop test  Metre ruler  Online reaction time test (reaction test timer)  App, smartphone/tablet

# Week 10 - Fitness training methods for physical components of fitness

#### Aerobic endurance:

- Continuous training steady pace and moderate intensity for a minimum period of 30 minutes
- Fartlek training the intensity of training is varied by running at different speeds and/or over different terrain
- Interval training work period followed by a rest or recovery period
  - for aerobic endurance decrease the number/length of rest periods and decrease work intensity (compared to speed training)
- Circuit training use of a number of stations/exercises completed in succession with minimal rest periods in between to develop aerobic endurance.

#### Flexibility:

- Static active the performer applies internal force to stretch and lengthen the muscle
- Static passive requires the help of another person or an object, e.g. wall to apply external force causing the muscle to stretch
- Proprioceptive Neuromuscular Facilitation (PNF) technique the technique involves the use of a partner or immovable object, isometric muscle contractions to inhibit the stretch reflex.

#### Muscular endurance:

- Free weights and fixed resistance machines high repetitions and low loads
- Circuit training using body resistance exercises or weights with low loads and high repetitions.

#### Muscular strength training:

 Free weights and fixed resistance machines – high loads and low repetitions.

#### Speed:

- Acceleration sprints pace is gradually increased from a standing or rolling start to jogging, then to striding, and then to a maximal sprint
- Interval training work period followed by a rest or recovery period.
  - For speed short, high intensity work periods, increasing the number of rest periods and increasing work intensity (compared to aerobic endurance training)
- Resistance drills hill runs, parachutes, sleds, bungee ropes, resistance bands.

# Week 13 - Fitness training methods for skill-related components of fitness

#### **Agility**:

 Speed Agility and Quickness training (SAQ) – drills used to develop physical ability and motor skills.

SAQ training is a mixture of dynamic movements that aim to increase a performer's speed and agility, To train agility, you need to take part in sport-specific training which includes speed, agility and quickness (SAQ) training principles. Generally involves you sprinting and then changing direction over a set course. This could be dribbling the ball while sprinting around cones set up on the pitch or having teammates act as opponents and dribbling at speed around them while keeping control of the ball and keeping the ball away from them.

#### Power:

- Plyometrics lunging, bounding, incline press-ups, barrier hopping and jumping.
- Eccentric muscle contraction is where the muscle lengthens when it contracts.
- Concentric muscle contraction is where the muscle shortens when it contracts.

Think of your muscle as an elastic band - the elastic band will fire further if you stretch it further back before letting it go. Plyometric training takes the muscle through an eccentric muscle action that lengthens and stretches the muscle before a powerful concentric muscle action. The shorter the time between the stretching phase and shortening, the more power can be generated. Plyometric training is any exercise that enables a muscle to reach maximum force in the fastest possible time. Over time, this makes the body create a faster rate of contraction, which will improve power.

#### Balance:

 Use of specific training exercises that require balancing on a reduced size base of support.

#### **Coordination:**

• Use of specific training exercises using two or more body parts together.

#### **Reaction time:**

 Use of specific training exercises to practise quick responses to an external stimulus.

# Week 14 - The effects of long-term fitness training on the body systems

# Week 15 - Fitness programming to improve fitness and sports performance

#### Aerobic endurance training:

- Adaptations to the cardiovascular and respiratory systems
- Cardiac hypertrophy
- Decreased resting heart rate
- Increased strength of respiratory muscles
- Capillarisation around alveoli.

#### Flexibility training:

- Adaptations to the muscular and skeletal systems
- Increased range of movement permitted at a joint
- Increased flexibility of ligament and tendons
- Increased muscle length.

#### Muscular endurance training:

- Adaptations to the muscular system
- Capillarisation around muscle tissues
- Increased muscle tone.

#### Muscular strength and power training:

- Adaptations to the muscular and skeletal systems
- Muscle hypertrophy
- Increased tendon and ligament strength
- Increased bone density.

#### **Speed training:**

- Adaptations to the muscular system
- Increased tolerance to lactic acid.

#### Personal information to aid fitness training programme design

- Aims details of what they would like to achieve for the selected sport.
- Objectives how they intend to meet their aims using an appropriate component of fitness and method of training.
- Lifestyle and physical activity history personal information is collected to ensure that the training is safe. Includes medical history, physical activity and lifestyle

#### Fitness programme design

- Use personal information to aid training programme design.
- Selection of appropriate training method/activity for improving/maintaining the selected components of physical and/or skill-related fitness.
- Application of the FITT principles and additional principles of training.

#### Motivational techniques for fitness programming

Definition of motivation – the internal mechanisms and external stimuli that arouse and direct behaviour.

#### **Types of motivation:**

- Intrinsic a person is motivated by internal factors not external rewards.
- Extrinsic a person is motivated by external rewards such as prize money or a trophy for taking part or doing well.

#### Personal goals:

Specific, measurable, achievable, realistic, time-related, exciting, recorded (SMARTER):

- short-term goals (set over a short period of time, between one day and one month)
- long-term goals (what they want to achieve in the long term, and the best way of doing this).

#### Influence of goal setting on motivation:

Provide direction for behaviour

Maintain focus on the task in hand.

#### Benefits of motivation on the sports performer:

- Increase participation
- Maintain training and intensity
- Increased fitness
- Improved performance.

STEP 2:		
CREATE		
CUES	STEP 1: RECORD YOUR NOTES	
What: Reduce your notes to just the essentials.  What: Immediately after class, discussion, or reading session.  How:  Jot down key ideas, important words and phrases  Create questions that might appear on an exam  Reducing your notes to the most important ideas and concepts improves recall. Creating questions that may appear on an exam gets you thinking about how the information might be applied and improves your performance on	What: Record all keywords, ideas, important dates, people, places, diagrams and formulas from the lesson. Create a new page for each topic discussed.  When: During class lecture, discussion, or reading session.  How:  Use bullet points, abbreviated phrases, and pictures Avoid full sentences and paragraphs Leave space between points to add more information later  Why: Important ideas must be recorded in a way that is meaningful to you.	
the exam.  Why: Spend at least ten minutes every week reviewing all of		
your previous notes. Reflect on the material and ask yourself		
questions based on what you've		
recorded in the Cue area. Cover		
the note-taking area with a piece of paper. Can you		
answer them?		

### **STEP 3: SUMMARISE & REVIEW**

What: Summarise the main ideas from the lesson.
What: At the end of the class lecture, discussion, or reading session.
How: In complete sentences, write down the conclusions that can be made from the information in your notes.

Why: Summarising the information after it's learned improves long-term retention.

### **WEEK 2: Cornell Notes (Homework task 1)**

Date /	I	Topic: Components of Physical Fitness	Revision guide page:
links	Notes		
Questions			

## WEEK 2: Exam Question (Homework task 2)

Date
<b>Question</b> : Identify two physical components of fitness that are required for a midfielder in football an explain how they benefit their performance in a match. (4)
Answer:
WEEK 2: Exam Question review and improvement (Classwork)
Question:
Answer:

### **WEEK 3: Cornell Notes (Homework task 1)**

Date /	1	Topic: Components of Skill Related Fitness	Revision guide page
links	Notes		
Questions			

## WEEK 3: Exam Question (Homework task 2)

Date
<b>Question</b> : Identify two skill components of fitness that are required for a basketballer and explain how they benefit their performance in a match. (4)
Answer:
WEEK 3: Exam Question review and improvement (Classwork)
Question:
Answer:

### WEEK 4: Cornell Notes (Homework task 1)

Date /	I	Topic: The importance of fitness for successful participation in sport	Revision guide page
links	Notes		
Questions			
	1		

## WEEK 4: Exam Question (Homework task 2)

Date
<b>Question</b> : Identify a component of fitness that a marathon runner would require, and compare this to a component of fitness a 100m sprinter would require. (4)
Answer:
WEEK 4: Exam Question review and improvement (Classwork)
Question:
Answer:

### Week 5: Cornell Notes (Homework task 1)

Date /	1	Topic: Principles of Training	Revision guide page
	Notes		
links			
Questions			

## WEEK 5: Exam Question (Homework task 2)

Date
<b>Question</b> : Identify and explain how an athlete might use each part of FITT to improve their running time. (4)
Answer:
WEEK 5: Exam Question review and improvement (Classwork)
Question:
Answer:

### **WEEK 6: Cornell Notes (Homework task 1)**

links  Questions    Outline	Date /	1	Topic: Exercise Intensity	Revision guide page
links				
	line la c	Notes		
Questions	IINKS			
Questions				
Questions				
	Questions			

## WEEK 6: Exam Question (Homework task 2)

Date
<b>Question</b> : Jodie is 28 years old. Work out her maximum heart rate, then her upper and lower training thresholds. Show your workings out. (3)
Answer:
WEEK 6: Exam Question review and improvement (Classwork)  Question:
Answer:

### **WEEK 7: Cornell Notes (Homework task 1)**

Date	1	1	Topic: Importance of fitness testing and	Revision guide page
			requirements for administration of each	
			fitness test	
			1	

links	Notes
Questions	

## WEEK 7: Exam Question (Homework task 2)

Date
Question: Identify and explain the four pre-test procedures required to complete before a fitness test. (4)
Answer:
WEEK 7: Exam Question review and improvement (Classwork)
Question: Answer:
Answer.

### **WEEK 8: Cornell Notes (Homework task 1)**

Date /	I	Topic: Fitness test methods for components of physical fitness	Revision guide page
links	Notes		
Questions			

## WEEK 8: Exam Question (Homework task 2)

Date
<b>Question</b> : Gymnasts require a wide range of movement for their events. Identify what flexibility fitnes tests would be beneficial and the equipment required. (4)
Answer:
WEEK 8: Exam Question review and improvement (Classwork)
Question:
Answer:

### WEEK 9: Cornell Notes (Homework task 1)

Date /	I	Topic: Fitness test methods for components of skill-related fitness	Revision guide page
links	Notes		
Questions			

## WEEK 9: Exam Question (Homework task 2)

Date
<b>Question</b> : Table tennis requires quick reactions for their games. Identify what reaction time fitness tests would be beneficial and the equipment required. (4)
Answer:
WEEK 9: Exam Question review and improvement (Classwork)  Question:
Answer:
Allawel

### **WEEK 10: Cornell Notes (Homework task 1)**

Date /	1	Topic: Fitness training methods for physical components of fitness	Revision guide page
	_		
links	Notes		
Questions			

## WEEK 10: Exam Question (Homework task 2)

Date
<b>Question</b> : 100m sprinters require speed to complete their race, identify and explain 3 training methods 100m sprinter could use. (6)
Answer:
·
WEEK 10: Exam Question review and improvement (Classwork)
Question:
Answer:

### WEEK 11: Assessment Week Revision (Homework task 1)

Date /	' /	Topic Mock exam revision

### WEEK 11: Assessment Week Revision (Homework task 2)

Date /	I	Topic: Mock exam revision

### WEEK 12: Assessment Week Revision (Homework task 1)

Date /	1 1	Topic: Mock exam revision

### WEEK 12: Assessment Week Revision (Homework task 2)

Date /	1 1	Topic: Mock exam revision

### **WEEK 13: Cornell Notes (Homework task 1)**

Date /	I	Topic: Fitness training methods for skill-related components of fitness	Revision guide page
	1		
links	Notes		
Questions			

## WEEK 13: Exam Question (Homework task 2)

Date
<b>Question</b> : Long jumpers require power to complete their event, identify and explain how they could complete plyometric training to benefit their event. (4)
Answer:
WEEK 13: Exam Question review and improvement (Classwork)
Question:
Answer:

### WEEK 14: Cornell Notes (Homework task 1)

Date /	I	Topic: The effects of long-term fitness training on the body systems	Revision guide page
links	Notes		
Questions			

## WEEK 14: Exam Question (Homework task 2)

Date
<b>Question</b> : Identify and explain the long term muscular strength training effects a weight lifter would benefit from? (4)
Answer:
WEEK 14: Exam Question review and improvement (Classwork)
Question:
Answer:

### WEEK 15: Cornell Notes (Homework task 1)

Date /	I	Topic: Fitness programming to improve fitness and sports performance	Revision guide page
link	Notes		
Questions			

## WEEK 15: Exam Question (Homework task 2)

Date
Question: Identify and give examples of the two types of motivation a netball player may use. (4)
Answer:

## WEEK 15: Exam Question review and improvement (Classwork)

Question:	
Answer:	
	_



Develop your character

