Year 9 Girls Knowledge organiser Booklet For PE

Y9 BTEC Introduction

Knowledge Organiser

Theory

Skill related components:
 Agility Balance Coordination Power Reaction Time

ABCPR

Agility

The ability to change direction quickly to allow performers to out-manoeuvre an opponent.

Balance

The ability to maintain centre of mass over a base of support.

Coordination

The ability to move two or more body parts at the same time smoothly and efficiently,

Power

The product of speed and strength to allow for explosive movements in sport.

Reaction Time

The time taken to respond to a stimulus (e.g. gun), useful in fast-paced sports to make quick decisions about

5 Body systems:

Cardiovascular

Respiratory

Muscular

Skeletal

Energy

Physical related components:

Muscular Endurance
Aerobic Endurance
Muscular Strength
Speed
Flexibility
Body Composition
MAMSEB

Muscular Strength

The maximum force that can be generated by a

Speed

Distance divided by time. To reduce time taken to move the body

Aerobic Endurance

The ability of the cardiorespiratory system to supply oxygen and nutrients to the muscles to sustain low to medium intensity work

Flexibility

The range of motion possible at a joint

Muscular Endurance

The ability of the muscular system to continue to contract at a light to moderate intensity

Body Composition

The ratio of fat mass to fat-free mass in the body

Y9 BTEC Introduction

What is a warm-up?

A period or act of preparation for a match, performance, or exercise session, involving gentle exercise or practice.

What do you need to include within a warm-up?

*Pulse raiser

*Mobiliser *Preparation stretches



Pulse raiser

A light exercise that slowly increases HR and body temperature.

Examples; jogging, skipping, cycling

Mobiliser

Activities that take the joints through their range of movement.

Examples; open the gate, close the gate.

Preparation stretches

Activities to stretch the main muscles that will be used in the activity.

Aerobic Endurance

- Continuous training working for a prolonged period of time at a steady stress level.
- Circuit training Each exercise is performed for a specified number of repetitions or for a set time before moving on to the next exercise. The exercises are separated by a short rest period.



Plyometric training - Plyometrics is a type of exercise training that uses speed and force of different movements to build muscle power.

Power

When organising a warm-up you need to consider the following:

- Space areas used
- Equipment
- Organisation of participants

Delivering a warm-up

Demonstrations

*Help understand the activity

*Explains the task in a

*Helps students not be

confused over what they

different way.

have to do.

- **Timing**
- **Demonstrations**
- Positioning

more.

Knowledge Organiser

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.



1 minute sit-up test

- complete as many sit-ups as you can in 1 minute.

T test – Complete the course as quick as possible. Keep facing forwards.

When leading you need to ensure that individuals are supported. To do this you could:

- Observe participants
- Provide clear instructions
- Provide teaching points
- Providing feedback to participants



Testing

Standing Long

Athletes stand behind a marker and have to complete a two footed jump as far as they can. Without falling backwards. 3 attempts – best value stands.

1 minute press up test - complete as many press up's as you can in 1 minute.

Fitness

Practical

12 minute cooper run

- run around a 400m track or pitch for 12 minutes. Note down the distance.

Shoulder flexibility te

 Put your right arm straight up and bend vour elbow so it bends behind then use your other hand to try and touch it

Measuring Heart Rate

- Count the beats for full 60 seconds
- Neck (Carotid Artery)
- Wrist (Radial Artery)





Interval training - Work period followed by a rest or recovery period.

Speed



Measured in BPM.

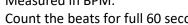






Table Tennis Equipment

The Racket



Red on one side --Black on the other side --Can be any shape, size or weight --Must be a flat surface

The Ball

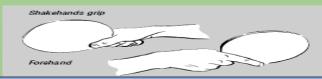


Colour: must be white or orange (Matt)---Spherical --- Weigh 2.7g ---- Diameter of 40mm



The Table --Flat and sturdy --possibly on wheels and secured or static --Dark blue or green colour --2cm white border line with a 3mm centre line

<u>Fitness for Table Tennis:-</u> Players must have good reaction time and hand-eye coordination.



Shake Hands Grip Form a 'V' with thumb and forefinger -- Place thumb and forefinger flat against paddle -- Curl 3 remaining finger around handle -- Keep finger and thumb away from middle of

<u>Pencil Grip</u> Thumb and forefinger on same side of paddle --3 remaining fingers behind on the back of the paddle --Ensure fingers are away from the center of the paddle.

Table Tennis - Year 9

Ready Position

1. Knees Bent 2. Leaning slightly forward so your weight is on the balls of your feet. 3. Feet shoulder width apart 4. Racket should be table height and in front of the body.



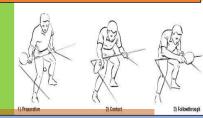
<u>Forehand Push</u> Forearm level with and close to the table—Bat angled at 45`---Right foot just behind left foot--- Contact with the ball as soon as it bounces—Push the ball forward the bat should not come up from table surface



<u>Backhand</u> Push Feet facing where the shot is to be aimed – Bat in front of body 45` angle close to table surface – Contact with the ball as soon as it bounces, push the ball forward, bat should not come up from the surface of the table. – Step in with right foot if the ball is short.



Serving -- Bouncing the ball on your side of the table, over the net and then landing on the opponent's side of the table-- 2 serves each (no 2nd serve) --Serve behind the white line at the end of the table --Ball thrown up 6 inches from the hand --Ball presented on an open hand/ palm --Hit the ball on to your side first and then onto opponents' side --Ball is not allowed to touch the net --'Let' ball touches net and hits opponents side of the table -- Single – serve anywhere on the table --Doubles – right to right --Non-racket hand cannot go on



Rally: The receiver must return the serve by hitting the ball after it has bounced. The ball is then hit alternately over the net onto the table by each player until one player fails to return the ball. The ball must be struck before it bounces twice on the table. The rally ends if the ball does not land on the table or if a player misses the ball, or if a player it's the ball without bouncing on their side of the table.



<u>A game</u>: A game shall be won by the player or pair first scoring 11 points unless both players or pairs score 10 points, when the game shall be won by the first player or pair subsequently gaining a lead of 2 points.

Year 9 Netball Knowledge Organiser

Key Term	Description	Main Coaching Point
Centre Pass system	A pathway of passes from the centre to attacking D	All players must understand the system
Running Step	The high running pass is used when a player is trying to get the ball quickly into an attacking position.	Catch ball mid-run then release the ball before re- grounding landing foot
Holding Space	A method of using the body to protect space	Place body close to opposition without moving until ball is passed
Attacking circle work	Creating Space using the attacking D	Attacking players work together
Motorway Lines	Create space using vertical zones on the court.	No more than 3 players in a lane
Penalty Pass	Contact / Obstruction	Offending player must stand beside the pass

Examples of centre pass systems – can you demonstrate these in a game?

The footwork law states a player must release the ball before putting their landing foot down once it is raised if completing the running step.







Key points for centre pass systems. All players on the team know the system so talk. Players start initial movements or system a metre or two BEFORE the transverse line, to get opponents moving and help open up space when the whistle goes. Ideally, your WA and GA shouldn't both be over the transverse line on a centre pass. Have a fall hark play if the designated team team player can't get free.

A centre pass occurs after a goal has been scored, when the Centre passes the ball. A short pass is a pass between two players on the same team, where

the length of the pass is so short that a defensive player cannot get between the two opposing players to intercept the ball.



The player needs to work

making slight adjustments

with the feet to keep the

position until last possible moment and then lunges, jumps or reaches to

defender contained. As

the ball is passed into the space attacker holds

receive ball without

allowing defender to reach the ball

to hold this position by

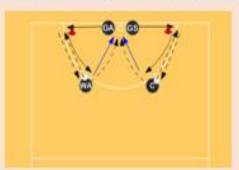
Holding Space



Attacking Circle Work.



Can you show these strategies in a game?





WD C WA

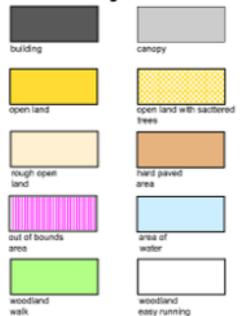
Motorway Lanes

PENALTY PASS (PENALTY SHOT if

in the goal circle) is awarded where the infringement occurred. The offending player must stand out of play beside the thrower until the pass or shot has been taken. Any opposing player allowed in that area may take the penalty



Area Symbols



Orienteering Skills

Orienteering: A competitive sport where participants travel with the aid of a map and/or compass.

Communication: Exchanging information with another person or team.

Team work: Combined action of a group, especially when effective and efficient.

Problem solving: action to overcome a challenge.

Orienteering

Key Terms

Start time/ end time: Time taken to complete the course.

Control card: Sheet to record answers on.

Control marker: The point on the map you are looking for.

These have the answers on.

Orientate: Align the map to match the features on the ground. Move around the map like a car goes around a roundabout.

Catching feature: a feature you will catch if you have passed your control marker.

Aiming off: Aiming towards a feature to guide you in the right direction towards the control marker.

Attack point: Head towards an obvious feature near the control point to help you locate the marker.



Fitness Components

- Cardiovascular endurance
- Muscular endurance
- Speed
- Agility

Line Symbols





























bush or small tree

Fitness and preparing for BTEC Sport — Year 9 (1)

Is there a 3rd phase to a warm up?

Sport Specific Phase

- Completed after Pulse raiser and Stretching - but before main
- · Replicates the actions that will be used in the main sport
- · E.g. Shooting or Passing

Skill related fitness components (ABCPR)

Agility

"Changing direction auickly"

Illinois Run test

Balance

"Maintaining mass over base of support"

Stork stand test

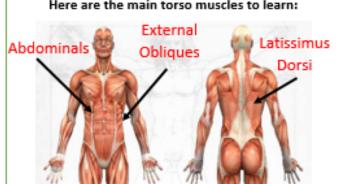
Coordination

"Efficient movement"

Alternate wall throw test

What muscles do I need to know?

Here are the main torso muscles to learn:



Power

"Speed X Strength"

Standing long jump or Vertical Jump test

Reaction time

"Time taken to respond to a stimulus"

Ruler drop test

How do I plan my training so that it is safe and effective? – Use the Basic principles of training: FITT

Frequency

Plan the right number of sessions per week

e.g.: twice a week to start with then build up

Intensity

Plan the right intensity for the fitness component

e.g.: Speed = high intensity Endurance = low intensity

Time

Make your session last the correct amount of time

e.g.: 30-60 minutes to start with then can build up

Type

Select the right training method for your goal

e.g.: Speed = interval, Endurance = Continuous

Fitness and preparing for BTEC Sport - Year 9 (2)

When planning a goal, make sure it's:

Specific - clear and meets your training/sports needs

Measurable – to see if improvements have been made

Achievable – and challenging for you personally

Realistic - in relation to ability and time

Timed - set a date to complete by

R

regularly & adapt if you're not on track

Rewarded - keep yourself motivated through rewards

Energy – where does it come from?

- . Energy comes from our diet (the food and drink that we take in)
- Different food/drink have different number of calories in that our body stores up and converts into energy when we begin to exercise
- The more calories we intake, the more exercise we need to do otherwise the body will store this excess as fat

Good news is: our bodies burn calories without
 Having to do anything approx. 1600kcal depending on body size

Averages: Adult male needs: 2500kcal Adult female needs: 2000kcal

RPE is another way
to measure how
hard your working
It uses a scale of 620 to measure how
hard you think your
exercising

	Rating of Perceived Exertion Borg RPE Scale			
6 7 8 9 10	Very, very light Very light Fairly light	How you feel when lying in bed or sitting in a chair relaxed. Little or no effort.		
12 13 14 15 16	Somewhat hard Hard	Target range: How you should feel with exercise or activity.		
17 18 19 20	Very hard Very, very hard Maximum exertion	How you felt with the hardest work you have ever done. Don't work this hard!		

What physical features might you see of someone working in the red zone?

Sweating, going red, tiring/slowing down, poor technique, very high HR and BR

Defending:

Full court press—defensive team apply the man to man defence as soon as the opponents gain possession of the ball.

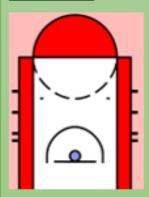
Half court press — defensive team apply the man to man defence when the opponents enter their half of the court.

Screen:



Is a blocking move by an attacking player in which they stand beside or behind a defender in order to free a teammate to drive to the basket.

3-second rule:



Attacking players can only spend 3 seconds in opponents key

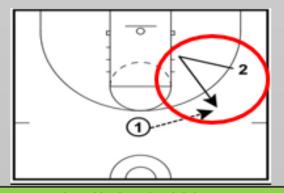
Basketball - Year 9

Outlet pass:



Defender rebounds the ball, pivots and passes the ball to a teammate. This leads to a 'Fast Break'

Cut:



Player 2 runs in and back out in a '**V**' shape. Player 1 passes him the ball. This creates space between number 2 and his defender.

Dominant/ non-dominant hand:

Dominant hand = your strongest hand

Non-dominant hand = your weakest hand

Fake and drive:

A player with the ball fakes/ pretends to shoot.

Hoping to trick the defender.

Putting the defender off balance, and they drive to the basket for a shot.

24-second rule:

When a team gains possession of the ball, they have 24 seconds to get a shot off.



Why a time limit?

Substitutions:



In Basketball you are allowed an unlimited number of substitutions.

Why unlimited?

Fast break:

After an **OUTLET PASS**.

A team attempts to move the ball up the court quickly as possible, so that the defence is outnumbered and does not have time to set up.

Athletics – Yr 9

Competition formats:

There are often qualifying stages before a final in Athletics

Running races:

This means heats where the fastest runners from each race or 'fastest losers' = qualification to the next stage. This continues until the final.

Throwing and Jumping events:

In the qualifying stages athletes have a number of attempts (usually 3) to achieve the best score possible. The top 8 or 12 athletes then qualify for a final.

Medals for top 3 places

Olympic record (OR):

Best score achieved by anyone at the Olympic games

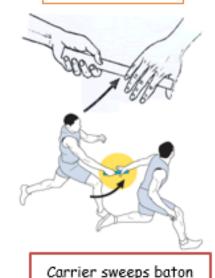
World record (WR):

Best score achieved by anyone at any formal competition (including Olympics)

Personal best (PB)

Best score achieved by that person

Receiver holds out hand with palm facing down



Relay Changeover

Receiver starts running when carrier reaches the 'mark' (10m away)

Carrier gives command 'Hand'

Receiver gives call when baton is in their hand Receiver holds out hand with palm facing up





Carrier sweeps baton from high to low

Relays include 4 runners who compete as a team to get the baton to the finish line first.

There are two main relays:

from low to high

4 x 100m (1 lap race, each person runs 100m): Runners must stay in their lane

 1^{st} leg (runner) – should have good reactions and a fast start (they run the first bend), 2^{nd} leg – runs a straight, 3^{rd} leg – runs the other bend, 4^{th} leg (anchor) – runs the last 100m to the finish line (tactically this is often the fastest runner).

4 x 400m (4 lap race, each person runs 400m)

1st leg (runner) – should have good reactions, a fast start and must run in their lane, 2nd leg – usually runs 100m in their lane they moves to the inside lane. 3rd and 4th legs can run on the inside lane. This race is also sometimes ran as a mixed gender race.

Year 9 Knowledge organiser- ROUNDERS

Advanced Bowling

Spin Bowl

Rotation of wrist at release point. Make the ball spin by twisting the wrist when releasing the ball. 4 fingers on outside of the ball, thumb on inside of ball. Rotate thumb backwards and fingers forwards.

Donkey Drop

Stand facing the batter; one or two paces back from the front line of the bowling square.

Hold the ball in your dominant hand

Step forward, transferring your weight from your back leg to your front leg (as in normal bowling action), keep lower to the ground than in a straight arm bowl

Swing your arm from back to front (like a pendulum) with an underarm action

Release the ball a little higher than your waist height

Flick your wrist upwards to send the ball looping up rather than straight out



Roles and Responsibilities in a Tournament

Two Umpires, in charge of scorecard & scoring, seeing Batters bat in order. A tournament innings is 18 good balls, umpire calls these. **Recorder**, collects score cards and records these on a tournament score sheet.

Tournament manager, oversees pitches, equipment, risk assessment. **Scenario: Eight of the nine batters are out during an innings. The innings is not over.**

What options does the last batter have? How can the fielders get the last batter out without stumping a post or catching them out?

Back up/Support Play

Movement of fielders to support post players. Eq.

When ball hit backwards - Backstop moves to front of batting square and throws ball to second post. 2nd and 1st deep create a triangle with second post to retrieve an inaccurate throw from BS.

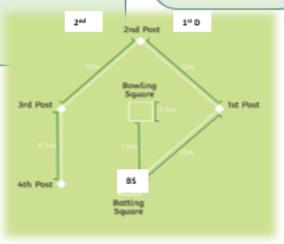
When a ball has been hit into deep field and fielders retrieve the ball to throw to 4th post BS will move behind the post in line with direction of throw to catch an over thrown ball.

Miss Field - No Rulelll

If a batter reaches 3rd Post as 4th was stumped and the ball is then no longer at the post or in the possession of the bowler in the bowling square (it does not have to be misfielded), the batter may wish to run on (especially if there are only a couple of batters left in) but would not score. If the batter was between 2nd Post and 3rd when 4th was stumped, this would not stop them from scoring in the usual way as it has to be the post immediately in front of the batter that is stumped to prevent scoring.

Key Words

Directional Batting Spin Bowl Donkey Drop Back up Support Play Last Batter Stump Box Miss Field Tournament Play Roles



Last Batter

When only one batter left in they will be given 'Best of three balls'. Bowler will bowl and batter can choose not to run on the 1st and 2nd delivery, however, they must take last ball. This continues until this batter is out

Stump Box

Batting Square becomes a base that can be stumped if no batsman is waiting to bat.