# Basketball - Dribbling

## Keywords

Attack	Accuracy
Balance	Movement
Possession	Receive
Control	Two Steps
Speed	Shoot
Double Dribble	Travelling

Can you think of anymore?



#### **Teaching Points:**

- Keep your head up don't look at the ball.
- 2. Keep the ball at waist height.
- 3. Keep your dribbling hand on top of the ball don't "carry".





H 12	Can you select the correct shot?
Making and Applying Decisions	Can you dribble with both hands?
	What tactics do you play?
	Can you adapt to each opponent?
Developing	What type of training method?
physical	How often do you train?
and mental	Overcoming mental barriers
capacity	The will to be successful/achieve
	How can you get past opponent?
Outwitting Opponents	Can get away from marker?
	Can you cross over dribble?
	Can you control the game?
Accurate Replication	Can you copy the set shot?
	Can you perform the layup?
	Can you dribble with control?
	Can you keep your body between
	ball and marker?
	Did you warm up effectively?
Exercising	How long do you hold a stretch for?
Safely & Effectively	Why do we need to exercise?
	What happens to your body during
	exercise?
Evaluating	Able to compare work with others
and	Pick out strengths/weaknesses
improving	To improve your skills and others
mproving	React to the changes in a game







#### **Handy Hints**

- Don't over use the dribble a quick pass is always a better option if you have an open team-mate further up the court.
- Keep your head up don't look at the ball. If your looking at the ball you can't see where your going, or where the defenders are. You must be able to see the court.
- A "good" basketball player can dribble well with both hands. Practice with your weak

## Dribbling Rules:

What is...(a) Double Dribble?

(b) Travelling?

# Basketball - Shooting

#### Keywords

Attack	Accuracy
Balance	Movement
Possession	Receive
Control	Release Point
Speed	Free Throw
Follow Through	Set Shot

## Can you think of anymore?



Making and	Can you select the correct shot?
Making and Applying Decisions	Can you dribble with both hands?
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	Can you control the game?
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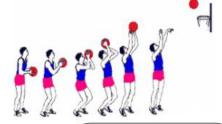






#### **Coaching Points**

- Square up, bend knees and elbows, bend wrist.
- Release and wave "good-bye" to the ball (have the shooting hand follow through).
- Extend the shooting arm up and out toward the basket.





#### **Holding the Ball**

- Holding the ball correctly you should see a "Y" being formed by your thumb, fingers and forearm of your shooting arm.
- Hold ball with the pads of the fingers and thumbs. There should be a gap between the palm of the hand and the ball.
- 3. The other hand only acts as a guide and is removed from the ball before the shot is released.

# Basketball - Lay-Up

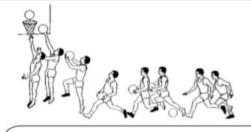
#### Keywords

Attack	Accuracy
Balance	Movement
Possession	Receive
Control	Two Steps
Speed	Shoot
Backboard	Triple Threat

#### Can you think of anymore?

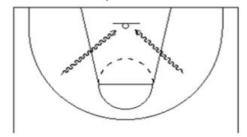


	Can you select the correct shot?
Making and Applying Decisions	Can you dribble with both hands?
	What tactics do you play?
Decisions	Can you adapt to each opponent?
Developing	What type of training method?
physical	How often do you train?
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capacity	The will to be successful/achieve
	How can you get past opponent?
Outwitting	Can get away from marker?
Opponents	Can you cross over dribble?
12.25	Can you control the game?
	Can you copy the set shot?
Accurate	Can you perform the layup?
Replication	Can you dribble with control?
	Can you keep your body between
	ball and marker?
_	Did you warm up effectively?
Exercising	How long do you hold a stretch for?
Safely & Effectively	Why do we need to exercise?
	What happens to your body during
	exercise?
Front Constitution of	Able to compare work with others
Evaluating	Pick out strengths/weaknesses
	To improve your skills and others
improving	React to the changes in a game



- You are allowed to take two steps. Jump up, not forward.
- As you take your steps and jump, bring the ball up with two hands to the shooting position.
- Shoot with the outside hand, using the inside arm to protect the shot.
- At the height of the jump, shoot the ball softly off the backboard.

## The Lay-Up is one flowing movement, not 'Stop & shoot'



Ideally, approach the basket at an angle of 45 degrees



# Basketball - Passing

#### **Keywords**

Attack	Accuracy
Balance	Movement
Possession	Receive
Control	Rhythm
Speed	Overhead Pass
Chest Pass	Bounce Pass

#### Can you think of anymore?



Making and	Can you select the correct shot?
Applying	Can you dribble with both hands?
	What tactics do you play?
Decisions	Can you adapt to each opponent?
Developing	What type of training method?
physical	How often do you train?
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	Can you keep your body between
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	Did you warm up effectively?
Exercising	How long do you hold a stretch for?
Safely &	Why do we need to exercise?
Effectively	What happens to your body during
	exercise?
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#### The Chest Pass

- 1. The ball is held close to the chest; keep your elbows close to your body no "chicken wings".
- 2. The ball is held in both hands. Hands either side of the ball, fingers spread, thumbs behind the ball. Use the fingers and thumbs to hold the







#### The Bounce Pass

- Execution is the same as a chest pass except the arms are thrust out and down, so that the ball hits the floor about two-thirds of the distance to the receiver.
- 2. The ball should come up to waist level for the receiver.







#### The Overhead Pass

- Hold the ball with both hands, using the finger pads and thumb on the outside of the ball.
- 2. Hold the ball above your forehead, not behind your head where it is easily stolen.

# Netball - Catching & Landing

#### Keywords

Attack	Pivot
Balance	Obstruction
Control	Balance
Speed	Dodge
Defence	Shoot
Coordination	Footwork

#### Can you think of anymore?



Making and Applying Decisions	Can you select the correct shot?
	Can you use the correct footwork?
	What tactics do you play?
Decisions	Can you adapt to each opponent?
Developing	What type of training method?
physical and	How often do you train?
mental	Overcoming mental barriers
capacity	The will to be successful/achieve
Outwitting	How can you get past opponent?
	Can get away from marker?
Opponents	Can you make space in attack?
	Can you control the game?
	Can you catch with both hands?
Accurate	Can you shoot at ring?
Replication	Can you land with control?
	Can you keep your body between ball and marker?
	Did you warm up effectively?
Exercising	How long do you hold a stretch for?
Safely & Effectively	Why do we need to exercise?
	What happens to your body during exercise?
	Able to compare work with others
Evaluating and	Pick out strengths/weaknesses
improving	To improve your skills and others
	React to the changes in a game

- · Monitor the flight of the ball
- Judge the speed and direction of the ball
- Reach for the ball with full arm extension
- Receive the ball with fingers spread wide and curved
- Bring your arms back into your body so you take the force out of the pass





Bring the ball close into your body to protect it



- You can improve your play by turning in the air before you land
- To regain your balance you have to absorb the energy from your jump
- Bend your knees and flex your ankles as both feet hit the floor
- Try to land on the balls of your feet, not your heels



- The benefit of a two-footed landing is that you can decide which foot is your landing foot
- But once you lift one foot then you have made your decision
- You must then pivot, jump or simply step and make your pass

## Netball - Passing

### Keywords

Attack	Pivot
Balance	Obstruction
Control	Balance
Speed	Dodge
Defence	Shoot
Coordination	Footwork





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#### CHEST PASS



- The ball is held in two hands, fingers and thumbs spread
- The ball is brought in close to chest
- The wrists rotate so that the thumbs point downwards
- The player steps forward onto her left foot in the direction of the throw.
- The elbows & wrists extend strongly
- · Step into the pass

body



**OVERHEAD** 



. Lift the ball over your head and allow it to drop back  $\boldsymbol{\alpha}$ 

• Bend your arms and keep your elbows close to your

- Put one foot forward for you to step into the pass
- Aim between their head and chest for easier receiving
- The flight of the ball should be high



BOUNCE PASS



- The ball is brought in close to chest
- It should be held so that fingers are pointing towards the floor
- Release the ball from waist height
- Aim the ball 2/3rds the distance between you
- The ball should bounce into her hands at waist level

# Netball - Shooting

## Keywords

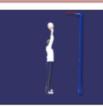
Attack	Pivot
Balance	Obstruction
Control	Balance
Speed	Flight
Defence	Shoot
Coordination	Footwork

## Can you think of anymore?



Making and	Can you select the correct shot?
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## **Coaching Points**

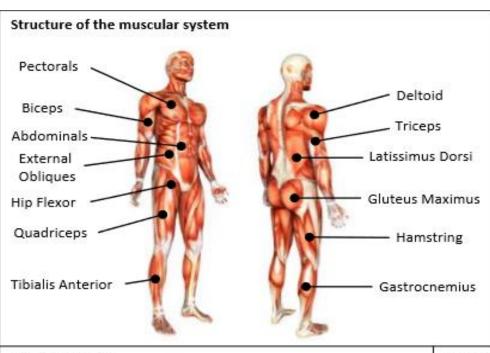
- Feet shoulder-width apart facing post
- · Ball held high directly ABOVE your head
- Knees and elbows are slightly bent to push off
- Eyes looking at a point above the ring
- Flick the ball upwards using wrist and index finger





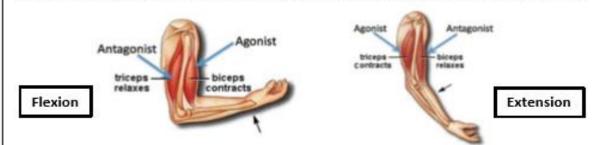
## **Holding the Ball**

- The ball rests on the fingertips of your stronger hand
- Hand is directly below the ball
- Index (pointing) finger is in line with the post
- Other hand supporting
   held to the side of the ball



Antagonistic pairs - Muscles are arranged in antagonistic pairs.

As one muscle contracts (shortens) its partner relaxes (lengthens) i.e. Biceps and Triceps.



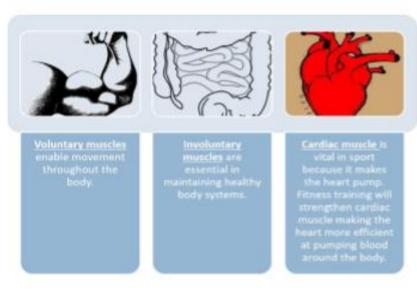
Agonist = the muscle that contracts to produce movement.

Antagonist = the muscle that relaxes to allow the movement to occur.

#### Examples in the body:

- Biceps & Triceps
- Quadriceps & Hamstring
- Hip Flexor & Gluteus Maximus
- Tibialis Anterior & Gastrocnemius

## Types of muscle



### The short term effects of exercise on the muscles:

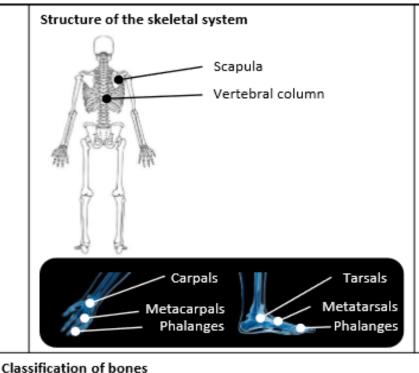
- 1. Working muscles produce heat
- 2. Increased muscle fatigue due to lactate accumulation
- 3. Blood is re-distributed to working muscles (Shunting)

#### Muscle fibre types

Slo	w twitch muscle fibres (Type I)	Fast twitch muscle fibres (Type IIa)	Fast	t twitch muscle fi	ibres (Type Ilx/b)
1. 2.	Smaller in size. Work aerobically with high fatigue resistance.	Larger in size     Work anaerobically & linked to high intensity activities.	1. 2.	Large in size Work anaerol to extreme hi	bically & linked gh intensity
3.	Have a good oxygen supply = deep red in colour.	Are paler in colour and have limited oxygen supply.     They contract quickly and	3.	activities. Very high spe contraction b	ed of ut low fatigue
4.	They contract slowly, but can work for long periods. Marathon runner	powerfully, but tire easily.  400/800m runner		resistance.	orinter
		A CARRET	type 1	400x 7000x Type 2A fast betch suptain	Short Sprints Type 2B Fact twitch glycolycic
	7	7	lee -	Foligoe rate	MgA

**Link of the muscular and skeletal system** – both systems work together to produce movement. *i.e.* a contracting muscle pulls on a bone which changes the angle at a joint.

# Structure of the skeletal system Cranium Clavicle Sternum Humerus Ribs Radius Pelvis Ulna Femur Patella -Tibia Fibula



Short (weight bearing)

Light, small and

very strong.

i.e.

carpais

tarsals

the body.

#### Vertebral Column

The vertebral column is divided into 5 sections. It is made up of irregularly shaped bones called vertebrae.

Each vertebra is protected with cartilage to prevent friction.

The vertebrae protects the spinal cord.

Flat (protection + muscle

attachment)

Broad surface

attachment.

i.e. cranium

area for muscle



Irregular (protection and

muscle attachment)

Patella/vertebrae

Assist the

of certain

joints. i.e.

functioning

#### Function of the skeleton

- Protection of vital organs
- Muscle attachment
- Joints for movement
- Blood cell production (platelets, red and white)
- Storage of calcium and phosphorus

### Classification of joint

- Hinge (elbow and knee)
- Ball and socket (hip and shoulder)
- Condyloid (wrist)







## Joint movements

Long (leverage)

Clear shaft region

to the bone.

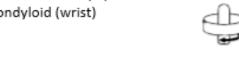
i.e. femur,

humerus &

phalanges

Flexion	Adduction	Rotation	Dorsi-Flexion (ankle joint)
Decreasing the angle at a joint (bending)	Limbs moving towards the midline of the body.	A twisting/turning action around a joint.	When the toes are turned up to the body.
Extension	Abduction	Circumduction	Planter-Flexion (ankle joint)
Increasing the angle at a joint (straightening)	Limbs moving away from the midline of	A combination of flexion, extension, adduction &	When the toes are pointed away from the body.

- Pivot (neck atlas and axis)



## Connective tissue

Ligaments - attaches bone to bone to add joint stability.

Tendons – attaches muscles to bone and contributes to joint movement as a result of muscle contraction.

#### Physical-Related Fitness Components

Aerobic Endurance: The ability of the heart and lungs, to work for a long period of time. Sports: Long distance running, Football, Road Cycling.



Muscular Endurance: the ability of a muscle, to work continuously without tiring. Sports: Hockey, Rugby, Endurance Sports

Flexibility: The range of movement at a joint. Sports: Gymnastics, Dance, Diving.



Muscular Strength: The maximum amount of force a muscle can produce in a short period of time. Sports: Rugby, Powerlifting, Boxing.

Speed: The ability to cover distances quickly. 3 types of speed; Accelerative Speed, Pure Speed & Speed Endurance. Sports; Athletics, Football, Rugby.

Body Composition: The ratio of Fat to fat-free mass In the body. Different sports will need a different body fat percentage



### Principles of Training

For any training to be successful, it must stick to the following principles;

Specificity: Tailoring training to your goals and sport.

Progressive Overload: Gradually increasing exercise intensity to cause adaptation.

Variation: Changing the type of training, to increase motivation.

Adaptation: Changes in the body caused by exercising at a high intensity. Reversibility: When you stop training, you lose any fitness adaptations you will have gained.

Rest & Recovery: The time required to allow your body to repair any damage sustained during training/competition. The body will repair itself and become stronger than before.

Frequency: How often you train Intensity: How hard you train Time: How long you train for

Type: what type of training do you do



#### **Skill Related Fitness Components**

Agility: Ability to change direction quickly and efficiently. Sports: Tennis, Rugby.

Balance: Ability to maintain centre of mass over a base of support. Two types; Static and Dynamic Balance. Sports; Gymnastics, games sports.

Co-Ordination: Smooth flow of movement to be able to perform a motor skill fluently. Sports; Tennis, Rugby, Gymnastics.

Power: Combination of Speed and Strength. Sports; Long Jump, Rugby, American Football.

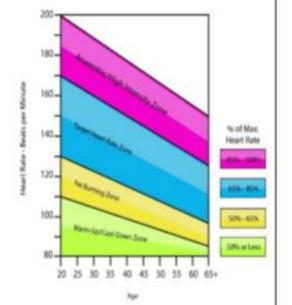
Reaction Time: The ability to react quickly to a stimulus. Sports; Sprinting, Tennis, Table tennis.

## Exercise Intensity

Measure how hard you are training by using your heart rate (BPM). Maximum heart rate = 220 - age Target heart rate zone for Aerobic training 60-85% of your maximum heart rate.

Therefore, you should be training had enough, that your heart rate is between 60-85% of your maximum heart rate. This will cause your body to adapt.

Borg's RPE scale can also predict intensity and heart rate. RPE X 10 = HR











#### Muscular Strength

Test: Hand Grip Dynamometer Test

Protocol: Grip the dynamometer in one hand. Start with your

hand up and bring down to side while pulling in handle. No swinging your hand.

Advantages	Disadvantages
Simple and easy to complete	<ul> <li>Only one size of dynamometer which may affect reading.</li> <li>Focuses solely on forearm strength.</li> </ul>

#### Muscular Endurance

Test: 1 minute sit up test



Test: 1 minute press up test

Protocol: Complete as many full sit ups/press ups as possible in 1 minute.

Advantages	Disadvantages
Simple test to complete     Minimal equipment needed.	<ul> <li>Difficult to assess whether each repetition is performed correctly. Difficult to accurately measure large groups.</li> </ul>

#### Flexibility

Test: Sit and Reach Test

**Protocol:** Sit with legs straight out in front and soles of feet against box/table. Reach forward without bending knees. No jerking movements.



Advantages	Disadvantages
<ul> <li>Quick and easy to perform.</li> <li>Data table readily available for comparison</li> </ul>	<ul> <li>Can cause injury if not fully warmed up appropriately.</li> <li>Only measures flexibility of lower back and hamstrings.</li> </ul>

## Cardiovascular Fitness (Aerobic Endurance)

Test: 12 min Cooper Run

Protocol: Continuously run/swim

for 12 minutes.

Distance recorded.

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Advantages	Disadvantages
Minimal equipment needed	<ul> <li>Inaccuracy of heart rate measurements</li> </ul>
<ul> <li>Test can be self</li> </ul>	<ul> <li>Motivation</li> </ul>
administered.	dependant

Test: Harvard Step Test

Protocol: Step continuously for 5 minutes.

Measure heart rate at 1, 2 and 3 minutes after exercise.



Advantages	Disadvantages
Simple test to	Motivation
complete	dependant

#### Agility

Test: Illinois Agility Test

**Protocol:** Start lying down at the start line. Complete course as quick as possible (10m x 5m – 4 central cones)





Advantages	Disadvantages
Simple and easy to complete	Motivation dependant / Timing errors.

#### Speed

Test: 30m Sprint Test

**Protocol:** Start from stationery position. Complete distance in the quickest possible time. Time is stopped when chest crosses the line.



Advantages	Disadvantages
<ul> <li>Quick test to complete.</li> <li>Minimal equipment needed and can be performed anywhere with a flat 50m run.</li> </ul>	<ul> <li>Running surfaces/weather conditions can affect the results.</li> <li>Inaccuracies with stopwatch usage.</li> </ul>

#### Power

Test: Vertical jump Test

**Protocol:** Stand next to wall and mark an initial reach while feet are flat on the ground. Standing jump to reach as high as possible. Measure distance from first mark to second.



Advantages	Disadvantages
Quick and easy to perform.     Easy to complete with large groups.	<ul> <li>Technique plays are large role in successful completion.</li> </ul>

#### Reliability /Validity

Validity relates to whether the test actually measures what it sets out to measure.



**Reliability** is a question of whether the test is accurate. It is important to ensure that the procedure is correctly maintained for ALL individuals.

### Results can be improved:

- By using experienced testers & calibrating equipment
- Ensuring performers have the same level of motivation to complete each test
- Repeatedly test to avoid human error (x3)