

WHS Physical Education

Study Guides / Handouts For Major Units

STUDENT NAME

Year 1 Teacher's Name

Year 2 Teacher's Name

**Assigned Heart
Rate Monitor**

NAME _____

Block _____

How to Use the Polar E40 Heart Rate Monitor

The Polar E40 Heart Rate Monitor is already programmed and ready to use!

How to start your heart monitor.

<p>Step 1</p>	<p>With the watch within 3 feet of your transmitter, press the RED button. (Note: When starting the monitor stay at least 3 feet from other students)</p> <p><i>Caution: Do NOT push the red button again until you want to turn OFF your heart monitor. There is NOT a pause feature.</i></p>	
<p>Step 2</p>	<p>Use the BLACK button to browse heart rate and exercise duration. (If numbers are flashing, your heart rate is outside the target heart rate zone).</p>	
<p>Step 3</p>	<p><u>Fitness Bullets:</u> 1 solid bullet = 10 min. in target zone. 6 solid bullets = one hour If the display reads 00, heart rate is not being received. Bring wrist unit to chest. The display refreshes in 5 seconds.</p>	
<p>Step 4</p>	<p>To stop recording, press the RED button. The display briefly shows the data recorded and returns to the time mode.</p>	

How to recall exercise information

Step 1	Press the BLACK button once to pull up SUMMARY.	
Step 2	Press the RED button to START. The <u>DATE</u> will be displayed.	
Step 3	Press the BLACK button once to display <u>DURATION</u> : Total exercise time.	
Step 4	Press the BLACK button once to display <u>IN ZONE</u> : Time in training zone.	
Step 5	Press the BLACK button once to display <u>AVG. HR</u> : Average heart rate while exercising.	
Step 6	Press the BLACK button once to display <u>MAX. HR</u> : Maximum heart rate while exercising.	

After exercise summary, the unit returns to the time of day display.

NOTE: PRESS and HOLD the red button to return to date and time mode.

NAME _____

Block _____

**Assigned Heart
Rate Monitor**

Date	Total Exercise Time (Duration)	Time in Target Zone	Average Heart Rate	Maximum Heart Rate	Approximate Calories Burned

NAME _____

Block _____

**Assigned Heart
Rate Monitor**

Date	Total Exercise Time (Duration)	Time in Target Zone	Average Heart Rate	Maximum Heart Rate	Approximate Calories Burned

NAME _____

Block _____

**Assigned Heart
Rate Monitor**

Date	Total Exercise Time (Duration)	Time in Target Zone	Average Heart Rate	Maximum Heart Rate	Approximate Calories Burned

NAME _____

Block _____

**Assigned Heart
Rate Monitor**

Date	Total Exercise Time (Duration)	Time in Target Zone	Average Heart Rate	Maximum Heart Rate	Approximate Calories Burned

WHS Heart Study Guide

Vocabulary and Important Terms:		
1	<u>B</u>eats per <u>M</u>inute:	
2	Maximum Heart Rate:	
3	Resting Heart Rate:	
4	Recovery Heart Rate:	
	• After 5 minutes	
	• After 10 minutes	
5	Aerobic Exercise:	
	• Examples of aerobic exercises •	
6	Anaerobic Exercise:	
	• Examples of anaerobic exercises	
7	VO₂	
8	VO₂MAX	
9	Target Heart Rate	
	• Lower zone • Upper zone	

Formula to calculate your heart rate target zone:

1	Subtract your age from 220 (maximum heart rate)	
2	Enter your resting heart rate	
3	Subtract #2 from #1	
4	<u>Multiply the answer to #3 by 65% (Convert 65% to .65 to multiply)</u>	
5	Add your resting heart rate to the answer to #4. This is your <u>LOWER TARGET ZONE.</u>	
6	Multiply the answer to #3 by 85% (Convert 85% to .85 to multiply)	
7	Add your resting heart rate to the answer to #6. This is your <u>UPPER TARGET ZONE.</u>	

WHS Weight Training Study Guide

There are seven fundamental *Principles of Muscle Development* to ensure **gradual improvement in strength** while **reducing the risk of injury**.

1	Principle of stress adaptation:	Strength development is _____ and _____ Too much too soon can lead to injury
2	Principle of tissue rebuild time:	Moderate to High intensity workouts need _____ hours to recover and rebuild.
3	Principle of near-maximum resistance:	
	<ul style="list-style-type: none"> • Low weight/high reps. 	Low wt./ (_____ reps) = lean muscle, _____ Improved _____ capabilities
	<ul style="list-style-type: none"> • High weight/low reps. 	Heavy wt./ (_____ reps) = increase strength Increase muscle _____
4	Principle of controlled movement speed:	5 second repetition = _____ second eccentric phase _____ second concentric phase
5	Principle of full range movement:	Full range of motion (ROM) lifting increases _____ and _____
6	Principle of muscle balance:	To avoid injury, exercise _____ muscle groups evenly
7	Principle of continuous breathing:	Breathe in (inhale) during _____ phase Breathe out (exhale) during _____ phase

**F.I.T. Principle: Three approaches to improve fitness/performance
... often used in combination with one another**

8	<u>F</u>requency:	How _____? Increase number of workouts per week Example: from two to three workouts per week
9	<u>I</u>ntensity:	How _____? Increase the intensity of the workout Example: increase the amount of resistance
10	<u>T</u>ime:	How _____? Increase the duration of the workout Example: increase number of repetitions and/or sets

Vocabulary and Important Terms:

11	Repetitions (Reps.):	One _____ lift
12	Set(s):	A _____ of reps
13	Eccentric:	<ul style="list-style-type: none"> • _____ the weight • 3 seconds • breathe _____
14	Concentric:	<ul style="list-style-type: none"> • _____ the weight • 2 seconds • breathe _____
15	Antagonistic:	<p>Opposite (opposing) muscle groups</p> <p>Examples: 1. _____/Hamstrings</p> <p>2. Biceps/_____</p>

Skeletal Muscles: voluntary muscles that allow movement

16	Flexion:	_____ the joint angle (example: arm curls)
17	Extension:	_____ the joint angle (example: leg extension)

NAME _____

Block _____

Exercises and Muscles

LOWER BODY:

Wt. Room Station #	EXERCISE	MUSCLE
	Step Ups	
	Squats	
	Lunges	

CORE :

Wt. Room Station #	EXERCISE	MUSCLE
	Back Extension	
	Sit-ups	
	Knee Lifts	
	Push-ups	

NAME _____

Block _____

UPPER BODY:

Wt. Room Station #	EXERCISE	MUSCLE
	Lat Row	
	Lat Pull	
	Dumbbell Flyes/ Butterfly	
	Standing Press	
	Pull-ups	
	Dips	
	Bench Press	

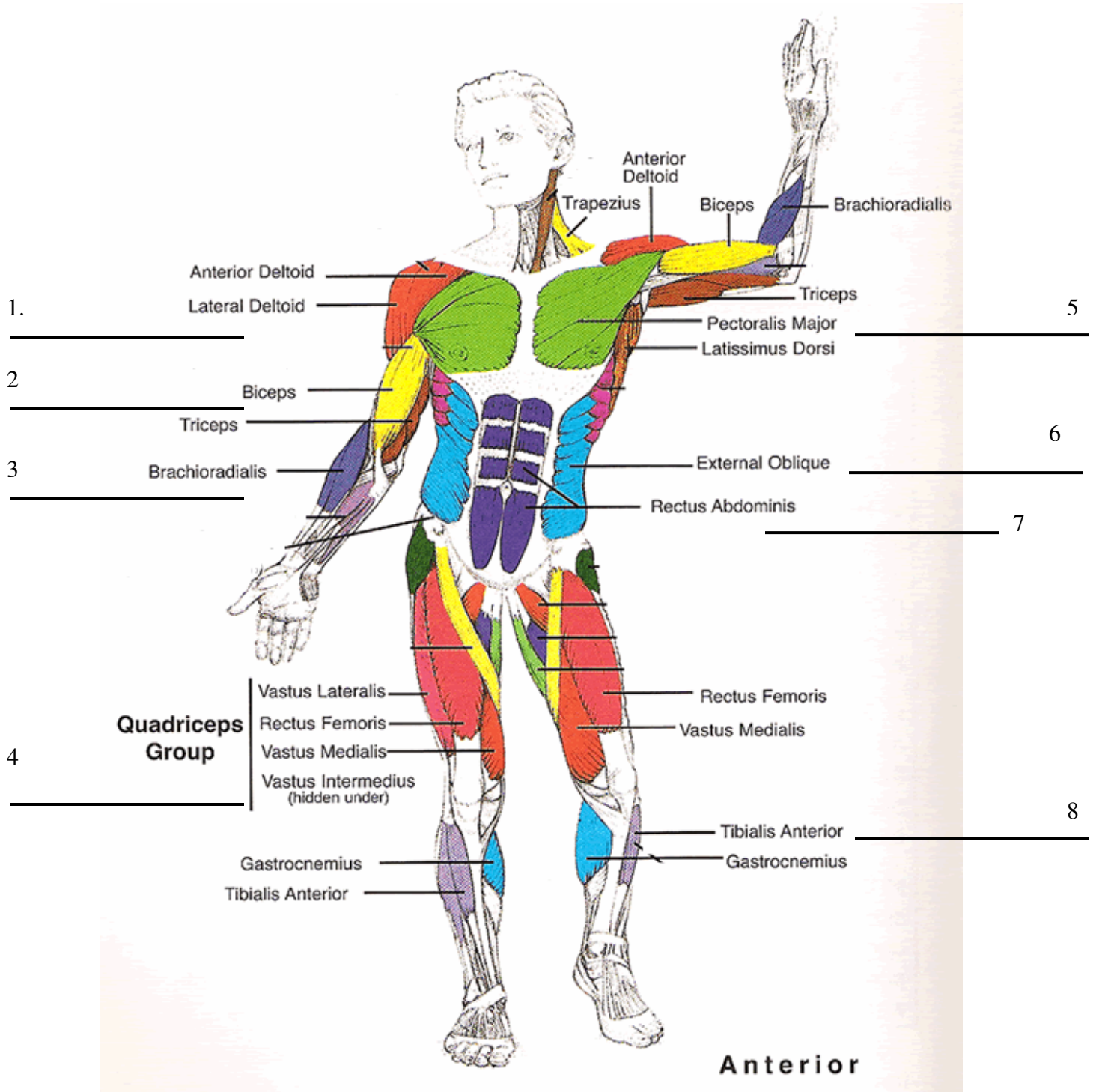
NAME _____

Block _____

Wt. Room Station #	EXERCISE	MUSCLE
	Incline Press	
	Shoulder Press	
	Anterior Arm Raise	
	Lateral Arm Raise	
	Tricep Press	
	Arm Curls	

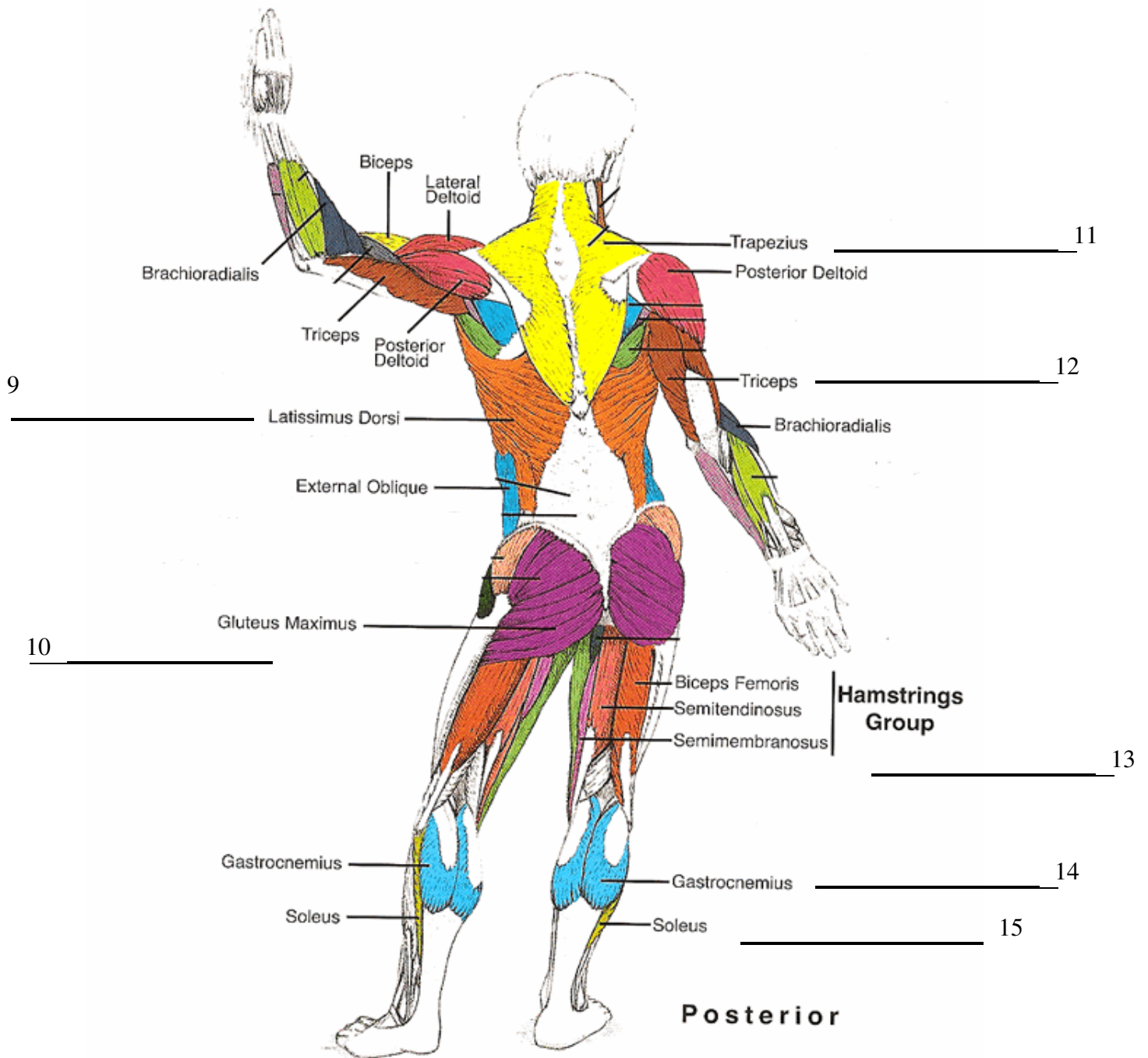
ANTERIOR MUSCLES

Label (1-15), the function (movement) of the muscles.



NOTE: above diagram from www.pjhspe.com/gragg/anterior_muscles.html

POSTERIOR MUSCLES



NOTE: above diagram from www.pjhspe.com/gragg/posterior_muscles.gif

Basketball Study Guide

Skills	
Dribbling	Purpose: To move the ball into position for a pass or a shot
	Key points: <ul style="list-style-type: none"> • Dribble with _____ • Keep head / eyes up (_____) • Dribble below your _____ • On _____, keep ball near your body and protect with non-dribbling arm • On _____, push ball out and sprint to move down the court
	Rules: <ul style="list-style-type: none"> • _____: moving with the ball (not including pivoting) while holding the ball • _____: dribbling; stopping your dribble; and dribbling again • _____: palming, carrying the ball by allowing the ball to rest your hands while dribbling
Passing	Purpose: To move the ball down the court (faster than a dribble) To move the ball to an open teammate
	Key points: <ul style="list-style-type: none"> • _____ into pass • On _____ - - - ball should contact the ground 2/3rd to 3/4th of the way towards your target • On _____ - - - aim for your teammate's chest • On a chest pass --- start with your thumbs up and step into the pass while rotating thumbs down to create _____. • Use _____, trickery, when passing • Be quick
	Rules: <u>Traveling</u> (see above)

Shooting	Purpose: To score
	Key points: <ul style="list-style-type: none"> • _____ to the basket • Keep your _____ on the target • Place feet _____ apart with knees bent • If shooting right handed, the _____ foot is slightly forward • If shooting left handed, the _____ foot is slightly forward • Use dominant hand to shoot; non dominant hand to _____ ball • Shooting elbow should form a “C” (_____) • Shooting elbow should be lined up with the _____ • Ball should rest on _____, not the palm • Lift up with entire body; shooting arm reaching high on follow through • Follow through high and snap your wrist to create _____
	Rules: <ul style="list-style-type: none"> • _____: stepping on the free throw line or into the free throw zone in the act of shooting a free throw • _____: making illegal body contact with a player on the opposing team in the act of shooting
Lay-ups	Purpose: To score on a drive to the basket
	Key points: <ul style="list-style-type: none"> • Approach the basket at a _____ angle • Take off on the _____ leg into a _____ jump • Pretend a “string” attaches your shooting elbow to your outside knee to achieve maximum lift • Aim for the _____ corner of the rectangle on the backboard • On the right side, dribble and shoot with your _____ hand • On the left side, dribble and shoot with your _____ hand
	Rules: <u>Traveling</u> (see above)

Defense	Purpose: To prevent the offense from scoring
	Terms: _____: When the player with the ball still has the option to dribble defender should maintain distance of arm's length (or greater if guarding a fast player) _____: When the player with the ball does NOT have the option to dribble defender should move in close to the ball to deflect pass or shot
	Key points: <ul style="list-style-type: none"> • Bend at the knees and stay _____ • Maintain position between the offensive player and the _____ • Move laterally (side to side) by _____ feet • Use _____ to interfere with the ball
	Rules: Personal foul – illegal contact with opponent (Blocking, Holding, Hacking, Reaching).
Screen & Roll	Purpose: Offensive move to free a teammate from the defense
	Key points: <ul style="list-style-type: none"> • Use a _____ to set the screen • Keep _____ firmly planted and _____ slightly bent • Position the screen so that the screener's body will block the defender • When rolling, _____ so that you are _____ the ball • Screens can be set <u>Ball</u> and <u>Ball</u>
	Rules: Personal foul: _____ screen, illegally moving to maintain a screen after setting the screen

Racket # _____

NAME _____
Block _____

BADMINTON STUDY GUIDE

THE GAME

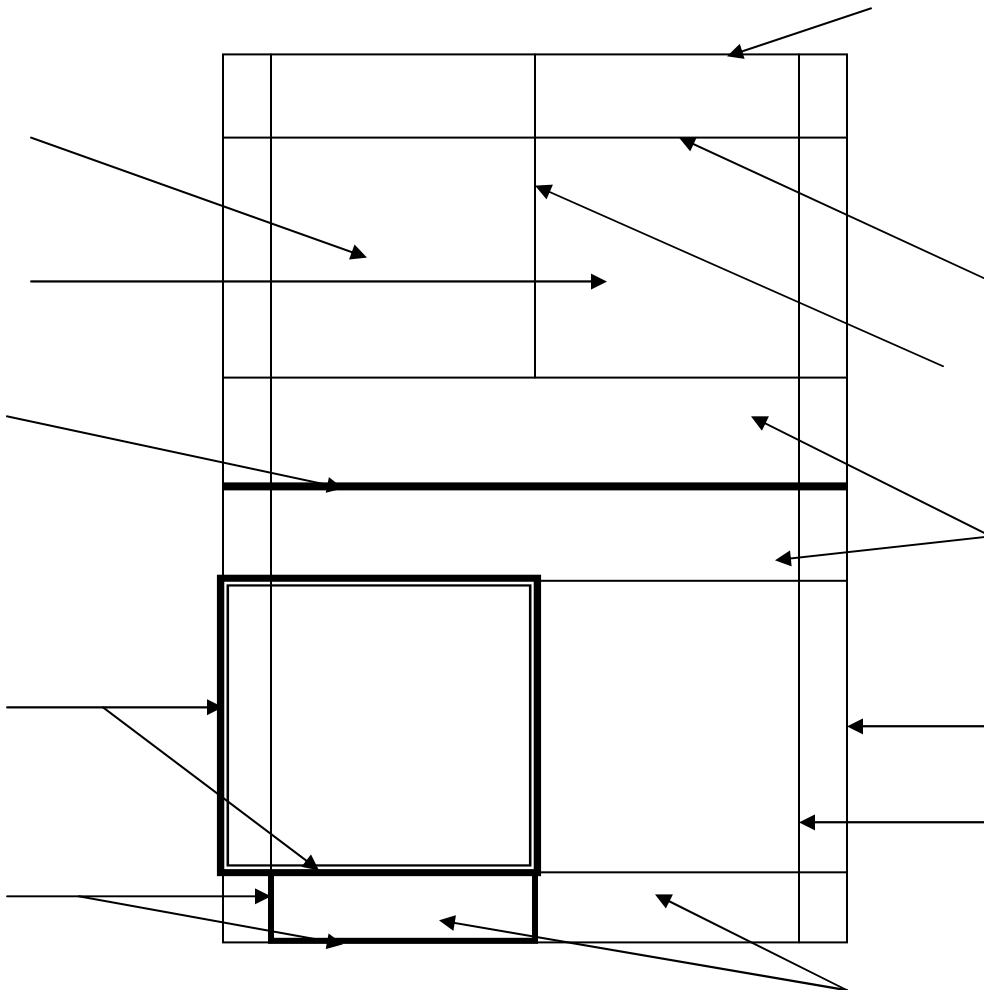
Badminton is a game (singles, doubles, mixed doubles) played over a net using racquets and shuttles with strokes that vary from relatively slow to quick and deceptive. It is considered to be the fastest court game in the world.

THE COURT

The court is divided in half by a net. Each half court is divided into _____ and _____ service courts. Service lines and sidelines for both singles and doubles serving are laid out. Sidelines and baselines are also marked for singles and doubles. A singles court measures 44' X 17' and a doubles court measures 44' X 20'.

BADMINTON COURT DIAGRAM

Label each line on a badminton court.



NAME _____

Block _____

RALLY SCORING

- Singles, doubles and mixed doubles are played to _____ points.
- The team that wins the _____ scores a point. (Every time the shuttle hits the floor a team scores)
- You must be ahead by _____ points to win.
- If the score reaches _____, the first team to score _____ points wins the game.
- A match is the best _____ out of _____ games.

DOUBLES SERVING with RALLY SCORING

- Serving is decided by a toss (_____, _____, or _____)
- The score must always be announced _____ serving. Say server's score _____.
- Only _____ team member gets to serve before the shuttle is turned over to the _____ team.
- Begin the game by serving from the _____ service court. The score is _____.
- _____ is an even number in Badminton.
- Server and partner switch (_____) service courts when they _____ the rally.
- Only the _____ rotates courts when they win a _____.
- A server will continue to serve until the serving team _____ the rally.
- Your team's score is _____ (0,2,4,6,8 etc.) when serving from the _____ service court.
- Your team's score is _____ (1,3,5,7,9 etc.) when serving from the _____ service court.
- An _____ serve results in the loss of the serve (_____) and the _____ team scores a _____.
- Server is only allowed _____ service attempt(s) unless he/she has a Let (do-over)
- A _____ is a point that is replayed.
- Lets occur if there is outside interference or both the server and receiver _____ the serving rules at the _____ time.

NAME _____

Block _____

SERVICE FAULTS

- Line violation (_____)
- When serving, not hitting shuttle _____ and below the _____
- Not serving _____ across to opponent in proper service court (lines are _____!)
- Serves cannot land in the NEUTRAL zone. After the serve (when rallying), the shuttle can land in the NEUTRAL zone.
- Not keeping both _____ in contact with ground until shuttle is _____
- Making _____ with the shuttle more than _____
- Stopping in _____ (feinting)
- Not stating the _____ before serving

POINTS

Either team wins the rally (a point) if their opponents:

- Fail to _____ a legal serve
- Hit the shuttle _____ the boundary lines
- Hit the shuttle _____
- Hit the shuttle _____ or more times on a return (double hit)
- Touch the net with _____
- Let the shuttle hit the _____ within legal boundaries
- Deliberately “_____” or “_____” the shuttle on the racquet
- Do anything to interfere with opponents’ _____ hit
- Go _____ the net with _____
- Reaches _____ the net to return a _____ (racquet follow through is okay)
- _____ the shuttle with anything other than the _____
- Fail to keep both _____ in contact with the floor until the serve is _____

NAME _____

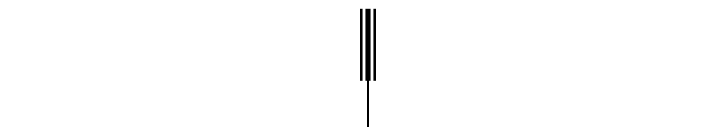
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GAME STRATEGY

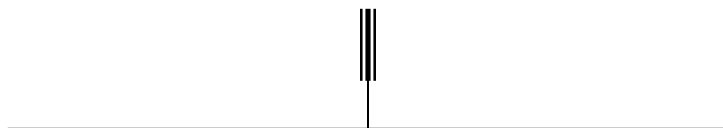
- Vary your _____ (short, long, forehand, backhand)
- Place your _____, hit to your opponents' _____
- Aim for _____ and _____
- _____ your shots (clears, dropshots, drives, smashes)
- Base your return shot on your opponents' _____
- Move your _____
- _____ of the game place your _____ in the _____ service court IF you are the SERVING team
- _____ of the game place your _____ in the _____ service court IF you are the RECEIVING team
- Confuse your opponents by _____ for the _____
- Bring the shuttle _____ as quickly as possible

RACKET POSITIONS:

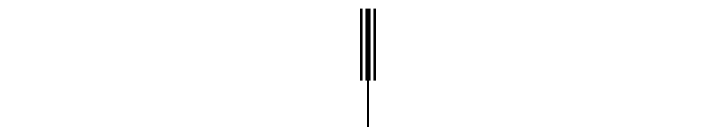
Open Racket: Racket face is angled towards the _____ . The shuttle will travel _____ .



Closed Racket: Racket face is angled toward the _____ . The shuttle will travel _____ .



Square Racket: Racket face is perpendicular with the _____ . The shuttle will travel _____ to the floor and in a straight line.

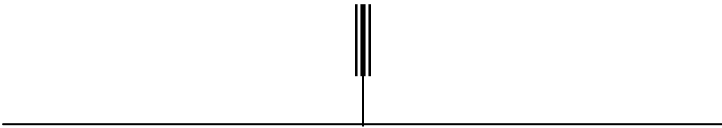


NAME _____

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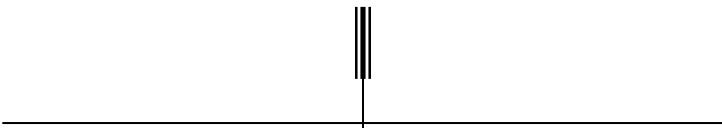
DIAGRAMS OF SERVES:

Short Serve



- Stand near the _____ service line
- Can be hit forehand or backhand
- Gently push shuttle and use little _____ - _____
- Bird is hit _____ and close to your opponent's short service line
- Used to force your opponent closer to the _____
- Used to force your opponent to return the shuttle _____ with an underhand hit.

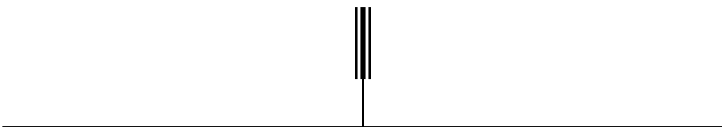
Long Serve



- Stand near the _____ service line
- Use forehand and a staggered _____
- _____ your weight from your back foot to your front foot
- Snap wrist and follow-through above your waist
- Contact shuttle with an _____ racket
- Shuttle is hit _____ and _____ into your opponent's service court

DIAGRAMS OF SHOTS:

Clear

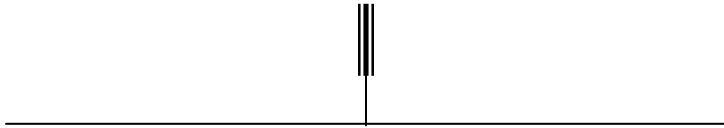


- High deep _____ shot
- _____ or overhead
- Forehand or backhand
- Use an _____ racket
- Turn non-racket shoulder to the _____
- Used to force your opponents to _____
- Used to give yourself time to get in position

NAME _____

Block _____

Smash



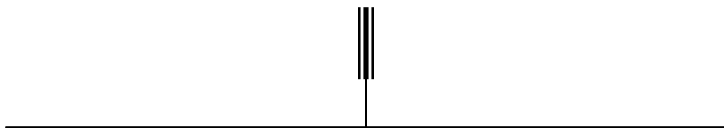
- Fast, “kill” shot
- Make contact overhead with a _____ racket
- Turn _____ shoulder to the net (forehand smash)
- Bend elbow and lock your wrist, preparing to swing forward
- Transfer _____ from back foot to front foot
- Contact shuttle as _____ as possible and slightly in front of racket shoulder (1 p.m.)
- Can be hit forehand or backhand

Drop shot



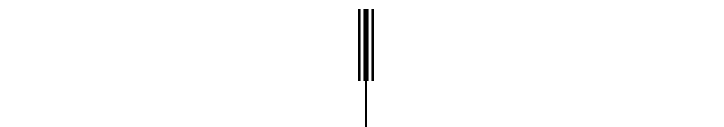
- Overhead shot hit _____ and close to the net
- Make contact _____ with a square to slightly closed racket
- Turn non-racket shoulder to the net
- Contact shuttle slightly in front of _____ shoulder
- Minimal follow-through
- Used to pull your opponent out of position and to make them move toward the net
- Forces your opponents to return the shuttle with an _____ hit

Net shot



- _____ shot hit near the net
- Forehand or backhand shot
- Contact shuttle near the net with an _____ racket
- Push shuttle _____ and just over the net
- Forces your opponents to move toward the _____
- Forces your opponents to return the shuttle with an _____ hit

Drive



- Low, fast, parallel to the ground shot
- Contact shuttle about shoulder high with a _____ racket
- Used mostly in _____
- Usually hit from your mid-court to your opponent’s backcourt
- Used to make your opponents _____
- Can be hit forehand or backhand

9/10 PHYSICAL EDUCATION BOWLING STUDY GUIDE

OBJECTIVE

- The objective in bowling is to knock down as many pins as possible in a game.

SCORING

- It is possible to knock down **10** pins in a frame.
- There are **10** frames in a game.
- The total points possible in a frame are **30** and in a game are **300**.
- You roll the ball twice in frames 1 to 9 to knock down ten pins and up to three times in frame 10.
- If you roll a strike or spare in the 10th frame you are allowed to roll a third ball.
- When the first ball in any frame knocks down all the pins, it is a **strike (X)**.
- If all the pins in a frame are knocked down in two rolls, it is a **spare (/)**.
- If pin(s) in a frame are left standing after the second roll, it is a **miss (-)**.

ETIQUETTE

- If two bowlers in adjacent lanes are ready to bowl at the same time, the bowler on the **right** bowls **first**.
- Stay on your own approach at all times.
- Do not take food or drink to the bowling area.
- Be ready to bowl when it is your turn.
- Do not roll a second ball if the first ball is not returned.

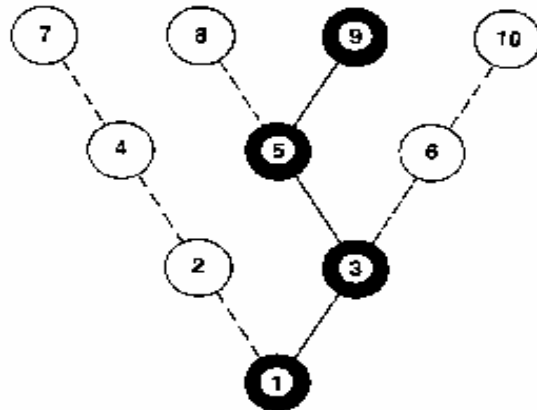
THE FOUR STEP APPROACH

- Left handers begin on **left** foot.
- Right handers begin on **right** foot.
- **Slide** on the last step to **set** the ball down on the lane.

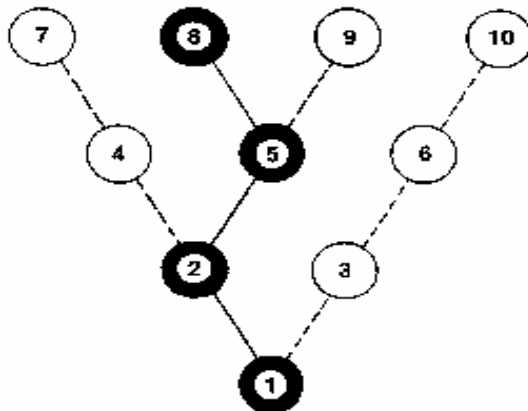
THE PERFECT STRIKE

- The **strike pocket** for left handers is between the **1-2 pins**.
 - The ball should physically hit pins 1,2,5,8.
 - Other pins (**pin deflection**) should knock down pins 3,4,6,7,9,10.
- The **strike pocket** for right handers is between the **1-3 pins**.
 - The ball should physically hit pins 1,3,5,9.
 - Other pins (**pin deflection**) should knock down pins 2,4,6,7,8,10.

EXHIBIT 3-1 **Ball and Pin** **Deflection on a Perfect Strike Hit**



The *Right Handed Bowler* Covers the 1-3-5 and 9-pins with the Ball. The other six pins must be taken out by pin deflection. The 1-pin sends the 2 into the 4 and into the 7-pin. The 5-pin takes out the 8-pin. The 3-pin sends the 6-pin into the 10-pin.



The *Left Handed Bowler* Covers the 1-2-5 and 8-pins with the Ball. The other six pins must be taken out by pin deflection. The 1-pin sends the 3 into the 6 and into the 10-pin. The 5-pin takes out the 9-pin. The 2-pin sends the 4-pin into the 7-pin.

THE LANE

- There are 39 boards on a lane. Every 5th board is marked so bowlers know where to begin their approach to pick up different targets.
- **Arrows** are printed on the lane to help bowlers line up their approach with their target.

FACTORS THAT INFLUENCE STRIKES

- The **approach** (mechanics and position on lane)
- Ball **spin**
- Ball **speed**
- **Accuracy** (aiming for specific targets is the most important factor)
- Ball **weight**

SPLITS

- A split occurs when a combination of pins is left standing after the first roll in a frame and there is a pin missing immediately ahead of or beside a standing pin.
 - A **split** is a **(S)**.
 - It is not a split if the 1-pin is left standing.

GOOD STRATEGY

- Use a **hook ball** (side spin) for **strikes**.
 - Hook balls thrown with the left hand hook right.
 - Hook balls thrown with the right hand hook left.
 - Hook balls cover more territory in the pin deck.
- Pick up **spares** with a diagonal **straight ball**.
 - Straight balls are more accurate than hook balls.
- Do not hit the 1 pin head-on (often results in a split.)
- Accuracy is more important than speed.
- Do not loft the ball; set it down on the lane.
- Square your shoulders to look directly at the pins.
- To improve accuracy, aim for the arrows as well as the pins.
- Keep your back straight and slide to set the ball down
- Pretend you are throwing a suitcase.
- “Shake” hands as you release the ball and follow through by bringing your hand up to your ear.

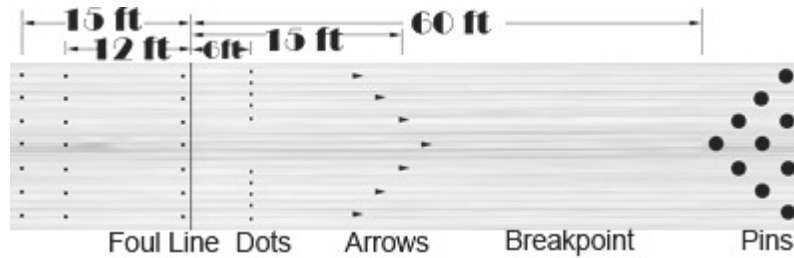
STRIKE POCKET

Diagram a diagonal STRAIGHT ball into the 1-2 pocket for a LEFT handed bowler

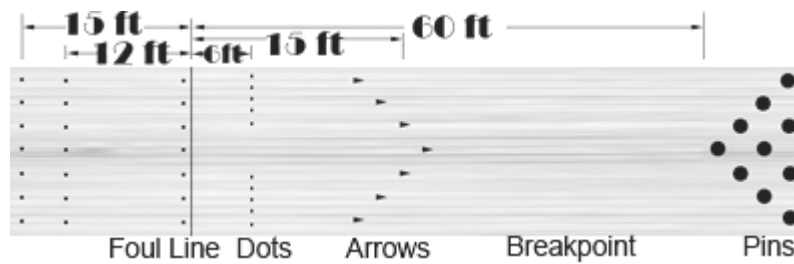


Diagram a diagonal STRAIGHT ball into the 1-3 pocket for a RIGHT handed bowler

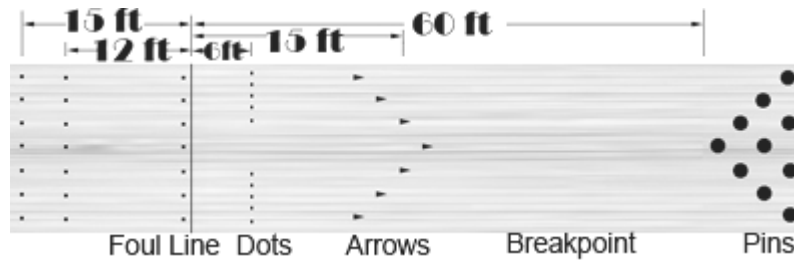


Diagram a HOOK ball into the 1-2 pocket for a LEFT handed bowler

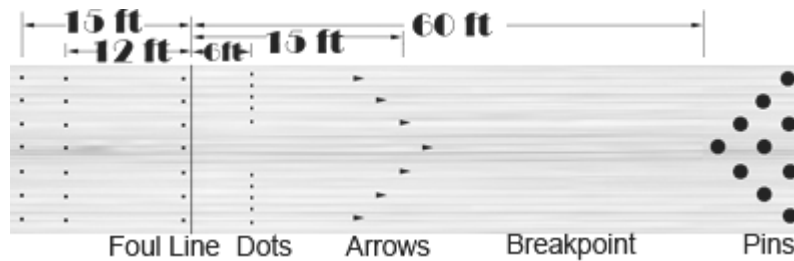


Diagram a HOOK ball into the 1-3 pocket for a RIGHT handed bowler

NOTE: above diagram from <http://helpwithbowling.com/images/bowling-lane-diagram.jpg>

PICKING UP SPARES

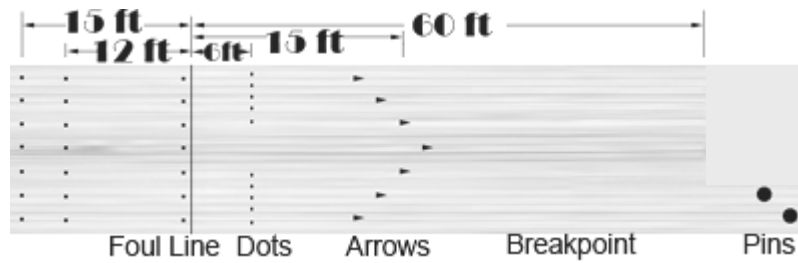


Diagram a diagonal straight ball from left to right to pick up right side spares

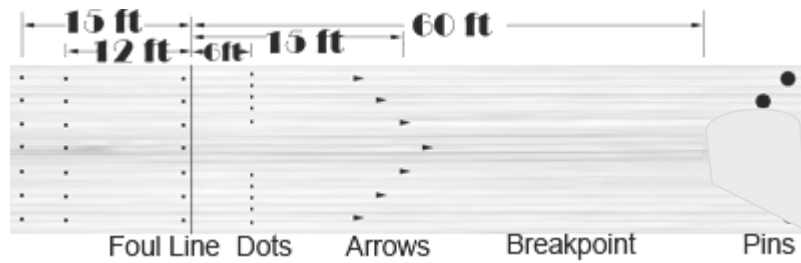
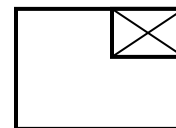


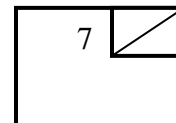
Diagram a diagonal straight ball from right to left to pick up left side spares

HOW TO SCORE

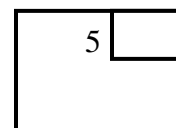
When the first ball in any frame knocks down all the pins, it is a **STRIKE** and is marked with _____.



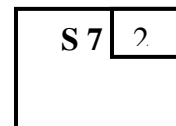
If all the pins in a frame are knocked down in two rolls, it is a **SPARE** and is marked with a _____.



If you miss the standing pins on the second roll in a frame, it is a **MISS** and it is marked with a _____.



If a **SPLIT** is left after the first roll in a frame, it is marked with a _____.



- If you roll a strike, you will receive ten pins, plus what you knock down on the **next two rolls** as a “bonus” in that frame.

 19	5 4 28
---------------	--------------------------------

- If you earn a spare, you will receive ten pins, plus what you knock down on the **next roll** as a “bonus” in that frame.

5 19	9 28
-----------------------	-----------------------

- If you fail to knock down all ten pins with both rolls, you record the number of pins you did knock down as your score in that particular frame.

7 7	8 15
----------------------	-----------------------

NAME _____
Block _____

HOW TO FIGURE OUT YOUR AVERAGE

Individual average:

$$\frac{\text{TOTAL \# PINS KNOCKED DOWN}}{\text{TOTAL \# GAMES PLAYED}}$$

Example:

$$\frac{5394}{29} = 186 \text{ is average}$$

HOW TO FIGURE OUT INDIVIDUAL HANDICAP

Individual team handicap formula:

$$(200 - \text{Average}) \times .80 = \text{individual handicap}$$

Example:

$$(200 - 189) \times .80$$

$$11 \times .80 = 8.8 \text{ or } 9$$

HOW TO FIGURE OUT TEAM HANDICAP

Team handicap formula:

$$\text{Player 1 handicap} + \text{Player 2 handicap} + \text{Player 3 handicap} + \text{Player 4 handicap} \\ = \text{Team handicap}$$

Example:

Player 1	88
Player 2	75
Player 3	49
Player 4	<u>73</u>
Team Handicap	285

LACROSSE

WHS Physical Education Rules

I. History of Lacrosse

Lacrosse is steeped in tradition, and though today's participants use sticks of plastic and titanium rather than wood, the Lacrosse stick symbolizes the historical significance of the game. North American Indians developed the game as early as the 15th century.

Indians played the game not only for recreation, but also to settle tribal disputes and to toughen warriors for fighting. The winner of the game won the conflict. There were no limits on how many players one team could have; games were played by as many as 1,000 men. Play could last many days, beginning at sunup and ending at sundown each day. Goals, consisting of rocks or trees, were generally 500 yards to a half-mile apart, but could be several miles apart. There were no sidelines.

When Europeans, specifically, the Jesuit missionaries from France, first saw the game in the 17th century, they wrote about a game played by the Huron Indians with sticks reminiscent of the crosier (la Crosse) carried by bishops as a symbol of their office.

In the 1800's white settlers in Montreal took up the game. When the Dominion of Canada was created a decade later, Lacrosse was designated – and still remains – the national sport. Canadians introduced the game to the United States, England, Ireland, and Scotland. Today, Lacrosse is played at international competition by England and Australia, as well as the United States and Canada.

II. Lacrosse Skills

1. _____ : Using the stick to pick up the ball from the ground and gain control of it.
2. _____ : Coordinated “rocking” motion using arms and wrists. A player maintains control of the ball in the net of his stick, even while running, turning, and stopping.
3. _____ : With a quick wrist action and an overhead swing of the arms, a player can pass the ball to a teammate.
4. _____ : The Lacrosse stick is used to catch the ball in mid-flight. When the ball arrives, give a little to take some of the speed off of the ball and prevent it from bouncing out.
5. _____ : The act of throwing the ball with the crosse at the goal in an attempt to score. An effective shot on goal is the “bounce shot” that ricochets off the ground.
6. _____ : A movement by an offensive player without the ball, towards the opponent's goal, in anticipation of a pass and shot.

III. Lacrosse Rules

1. Start the game with a coin toss. The team that wins the toss gets possession of the ball at the midline of the playing area. The ball must be passed to put it in play.
2. Play the ball, not the opponent. (No crosse (stick) or body contact allowed) Although permitted in the official game, body and stick checking are not allowed in physical education Lacrosse. **PENALTIES FOR CHECKING, SLASHING, TRIPPING, HOLDING, PUSHING, ROUGH PLAY, ETC. ARE TWO MINUTES IN THE PENALTY BOX.**
3. You have _____ seconds to shoot or pass the ball (no hand-offs). When a player has possession of the ball the opponents may not take or jar the ball free.
4. Players must keep _____ hands on their sticks.
5. The ball must be passed over (not carried over) the _____.
6. Play should be _____ (no stalling).
7. Only the _____ may be in the crease around the goal. Only the goalie can touch the ball with his/her hands and only when the goalie is in the crease.
8. Player-on-player defense only. Double/triple teaming is _____ allowed.
9. _____ -- Attackers must be on the offensive half of the field and the defenders must stay in the defensive half at all times. This helps prevent all players in the same area.
10. When the ball goes _____ (either by throw or carry) the opposing team gets possession of the throw-in. An exception to this rule applies when the ball goes out-of-bounds as a result of a shot on goal. When this occurs the team _____ the ball when it went out-of-bounds is awarded possession.

A VIOLATION OF THE ABOVE RULES WILL LEAD TO A CHANGE OF POSSESSION (exception: Rule #2)

IV. Lacrosse Field Positions:

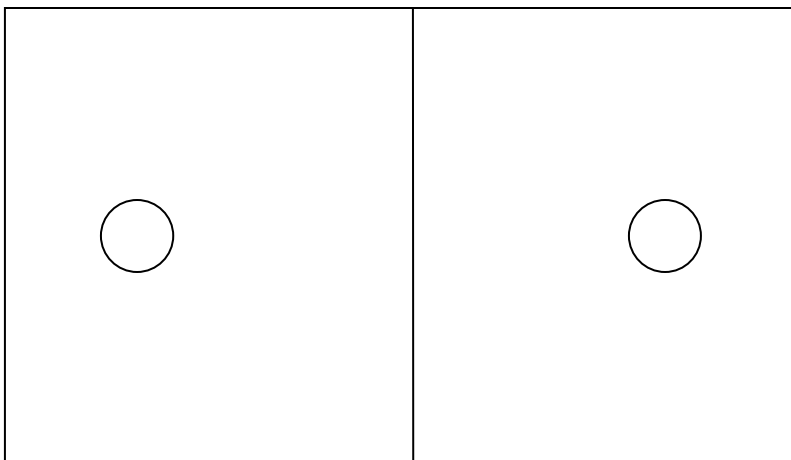
1. _____: Players whose primary purpose is to score. Attackers must stay on the offensive half of the field.
2. _____: Players who are responsible for defending the goal, stealing possession from their opponents, and transferring that possession to their midfielders or attackers. Defenders must remain in the defensive half of the field.
3. _____: Players whose responsibility is to cover the entire field playing both defense and offense. Midfielders must stay out of the crease.
4. _____: The goalie is a defensive player and is the only one allowed in the crease.

V. Lacrosse Field

A Lacrosse field is 110 yards long and 60 yards wide. The goals are 80 yards apart with 15 yards behind each goal. The field is divided in half by a centerline. The _____ is an 18ft. diameter circle drawn around each goal. Only the goalie can be in the crease.

Label the field diagram below. Include:

- Sideline
- Endline
- Centerline
- Crease
- Goal
- Offensive half
- Defensive half
- Attackers (A)
- Midfielders (M)
- Defenders (D)
- Goalie (G)



Paddle # _____

TABLE TENNIS STUDY GUIDE

To Start a Game (Singles and Doubles)

One player hides the ball in one hand under the table. The other player tries to guess which hand holds the ball. The winner gets the choice of serving or receiving the ball or the choice of side.

Game Play (Singles and Doubles)

- Lines and edges are legal territory
- Sides are not legal territory
- The ball must bounce once on each side of the table (no volleying)
- You may not move or touch the table with your non-playing hand
- All hits are alternated (hit the ball and get out of the way if you are playing doubles)
- Double hits are illegal
- The ball does not have to go over the net to be legal
- Balls that touch the top of the net or climb the net and land in the opponent's court are legal during game play
- In doubles, you will always receive the ball from the same player and hit the ball to the same player

The Grip

- The paddle face is red on one side, black on the other side
- The _____ side should be to your _____.
- The _____ side should be to your _____.
- Grip the racket so the lowest portion of the paddle face is between your _____ and _____.
- The remaining _____ fingers grip the _____.
- Do not touch the rubber surfaces of the paddle because _____.

Body Position

- Your feet are _____ apart.
- _____ at the waist
- Be able to easily touch the _____ with your paddle near the _____.

NAME _____

Block _____

Footwork

- Move _____ or _____ to _____
- Take _____ steps
- When playing doubles, _____ after hitting the ball
- To move left, lead with the _____ foot
- To move right, lead with the _____ foot

Scoring

- The _____ team and the _____ team can score a point
- Table Tennis is played to _____ points but you must win by _____ points

Serving Mechanics

- The ball must be tossed at least _____ inches into the air from an _____ palm
- Ball contact must be made _____ the end of the table
- Ball contact must be made _____ the _____

Service Rules (For Doubles)

- All serves are from the _____ to the _____
- Each player will serve _____ in a row
- In doubles, immediately _____ after the 2nd serve is played out.
- The ball is served in a _____ direction
- Balls that land on the _____ are good
- If the score is 10 to 10 _____ after each point
- _____ serves are serves that touch the net and land in the correct service court.
- Let serves _____ over.
- The ball must _____ once on the server side before going over the net
- State the server's score _____ and the receiver's score _____.

Service Rules (For Singles)

- Serving in Singles is the same as serving in Doubles **EXCEPT**, in Singles; the serve does NOT have to be from the right side to the right side. The serve can be to _____ side of the table (right or left).

Racket Position

- An open face racket is turned _____
- A closed face racket is turned _____

Serving with spinForehand, backhand serve with topspin

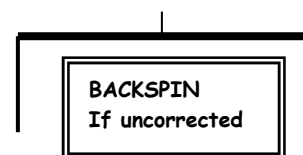
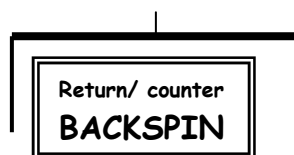
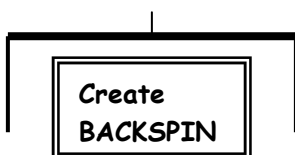
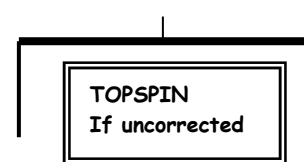
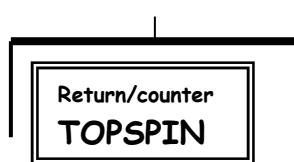
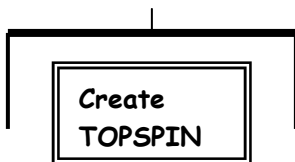
- Create topspin on the forehand and backhand serve by _____ the paddle against the ball in an _____ motion.
- The stroke begins with the paddle held _____ and ends with the paddle held _____ with a _____ face.

Forehand, backhand serve with backspin

- Create backspin on the forehand and backhand serve by _____ the paddle against the ball in a _____ motion.
- The stroke begins with the paddle held _____ and ends with the paddle held _____ with an _____ face.

Spin

- The paddle must _____ against the ball to create _____.
- Use the wrist to control _____ and _____.
- **Topspin** causes the ball to _____. If returned with an uncorrected racket, the ball will _____ and fly off the table.
- **Backspin** causes the ball to _____. If returned with an uncorrected racket, the ball will go into _____.
- Sidespin causes the ball to _____.



To Return Spin

- To return backspin use a slightly _____ face racket
- To return topspin use a _____ face racket
- To return side spin hit the ball to the _____ of the table

Strokes

- Strokes are defined as _____
- The two types of strokes are _____ strokes and _____ strokes
- Offensive strokes are used to _____
- Defensive strokes are used to _____

Offensive strokes**Forehand topspin**

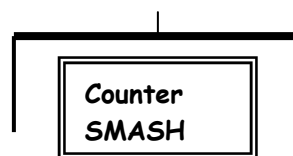
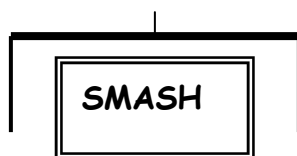
- After the bounce, brush the ball _____ with your paddle in a _____ position to create topspin.
- Your _____ is close to your side.
- Start with your paddle _____ and finish the stroke high like a _____.

Backhand topspin

- After the bounce, brush the ball _____ with your paddle in a _____ position to create backspin.
- Your _____ is close to your side.
- Start with your paddle _____ and finish the stroke high.
- The wrist is used to _____.

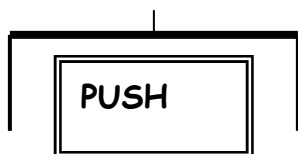
Smash

- The smash is used for maximum _____ to put away the point.
- Hit the ball after the bounce _____.
- Keep your _____ close to your body.
- For maximum speed, _____ your body.

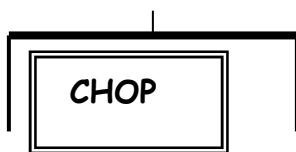


Defensive strokes**Push**

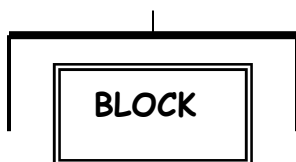
- The _____ is a short, defensive stroke used when player is close to table
- It is designed to keep _____
- Hit the ball when it is on the _____
- Keep your _____ close to your body
- The paddle should be in the _____ face position to put _____ on the ball

**Chop**

- The _____ is a long, defensive stroke used when player is back from the table.
- It is designed to put _____
- Hit the ball when it is on the _____
- Start the motion of the stroke with the racket held _____ and _____ by your body.
- Finish the stroke with the racket _____ and _____ of your body

**Block**

- The _____ is a short, defensive stroke
- It is designed to _____
- Hit the ball when it is on the _____
- If the ball hit by your opponent is traveling fast, think of the block as a _____



NAME _____

Block _____

VOLLEYBALL STUDY GUIDE

Volleyball skills, key concepts, and terminology:

Set	Bump	Underhand pass	Spike	Dig
Hit	Forearm pass	Overhead pass	Block	Fencer stance
Approach	Floater	Forearm platform	Serve	Shoulder shrug
Defense	Stay low	Thumbs together	Offense	High Elbow

The following boxes contain graphics of different volleyball skills.

Match the above skills, key concepts, and terminology with the following diagrams. Add your own key concepts or coaching cues. When and why are the different volleyball skills used?

Skill: _____

Key Points:

- 1.
- 2.
- 3.

4.

Coaching Cues:

*

*

*

*

*

Notes: "Dig" is a

NAME _____

Block _____

Skill _____

Key Points:

- 1.
- 2.
- 3.
- 4.

Coaching cues:

- *
- *
- *

Skill _____

Key Points:

- 1.
- 2.
- 3.

Coaching Cue:

- *

Note: sets are

NAME _____

Block _____

Skill _____

Key Points:

- 1.
- 2.
- 3.

- 4.

Coaching Cues:

- *
- *

Skill _____

Key Points:

- 1.
- 2.
- 3.

Coaching cues:

- Stance:** *
- *
 - *
 - *

NAME _____

Block _____

THE GAME

Volleyball is a six (6) person team sport played on a court (30' X60') divided by a net (7'4" in height for girls and 8' for boys). Each team tries to cause the opposing team to be unable to return the ball over the net.

RALLY SCORING

Both the SERVING team and the RECEIVING team can score a point. A team must have 25 points and be at least 2 points ahead of their opponents to win the game.

SERVICE

The game begins by a serve (service) taken behind the baseline. The server may not step on or over the baseline (foot fault) until the ball is hit. A served ball that hits the net and lands in the opposing team's court is legal.

THE RULES

- All players must rotate one position in a clockwise direction before their team receives the serve
- All players must maintain their position until the ball is served
- Back row players can only spike (attack) from behind the 10 foot line
- Back row players can not block the ball
- Each side is allowed three clean hits (blocks do not count as a hit)
- A player can not hit the ball twice in succession
- "Liners" are considered within bounds
- It is illegal for a player to touch the net
- It is illegal to step over the center line
- It is illegal to block a serve
- Follow through is legal on a hit as long as the hitter does not touch the net

NAME _____
Block _____

GOOD TEAM STRATEGY

- Spread your best players throughout the lineup
- Aim for lines and corners when serving and during game play
- Look for holes in the opposing team lineup
- If possible, the back row should receive the serve
- The back row receiver should direct the ball to the right front area of the court for the “set”
- Slow down a fast ball by slightly relaxing the arm platform on contact
- Speed up a slow ball by assuming a more rigid platform with the arms
- Angle the arm platform 45 degrees to send the ball forward
- Angle the platform 90 degrees to allow a nearby teammate to get under the ball
- Use good teamwork (3 hits) to set up your attack and improve your chances of scoring

THE COURT

ROTATION

Paddle # _____

PICKLEBALL STUDY GUIDE

Description

Pickleball is a net game that is played on a badminton court. Two (singles) or four (doubles) people can play.

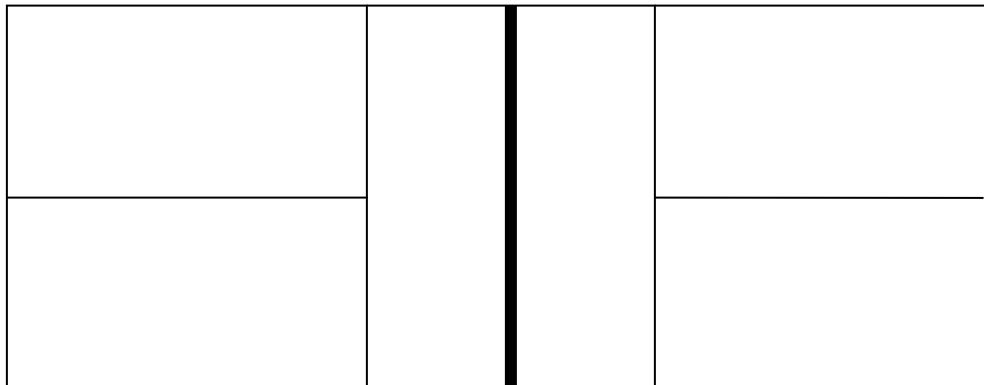
Etiquette/Court manners

- If there is a disagreement about whether the ball was clearly in or out, _____
- _____.
- Throwing equipment in anger is unsportsmanlike conduct. Control your temper.
- Give your opponent time to get _____ **before** serving the ball.
- Return stray balls to other courts, but not while a point is being played.
- Do not walk through other people's courts at any time.
- Know the rules of the game and observe them.

Game Play

- Rally the ball to determine _____ or _____.
- Net balls that land on the opposing team's court during a rally are _____.
- Lines are _____.

The Court: in the space below, label the pickleball court diagram. Include line names, the non-volley zone, and the service areas.



NAME _____

Block _____

The Serve

- Player in the right service court always serves _____.
- Server must keep _____ behind the yellow baseline.
- Server must announce the score saying his/ her team's score first.
- The serve is an _____.
- Server _____ with his/her partner every time they _____.
- Server must contact the ball in the air; it _____ bounce.
- The serve is made _____ and should land between the non-volley line and the _____. Lines are legal.
- The only time a serve is taken over (a _____) is when the ball hits the net and lands in the diagonal service court.
- The server shall continue to serve until his/her team makes a fault.

DOUBLES SERVING with RALLY SCORING

- Pickleball is played to _____ points but a team must win by _____ points.
 - The score must always be announced _____ serving. Say server's score _____.
 - Only one team member gets to serve before the ball is turned over to the _____ team.
 - Begin the game by serving from the _____ service court. The score is _____.
 - _____ is an even number in Pickleball.
 - Server and partner switch (_____) service courts when they _____ the rally.
 - Only the _____ team rotates courts when they score a rally/point.
 - A server will continue to serve until the serving team _____ the rally.
 - Your team's score is _____ (0,2,4,6,8 etc.) when serving from the _____ service court.
 - Your team's score is _____ (1,3,5,7,9 etc.) when serving from the _____ service court.
 - An _____ serve results in the loss of the serve (side out) and the _____ team scores a _____.
- Server is only allowed one service attempt unless he/she has a
 1. **Let** -the point is replayed because of outside interference or the ball _____ the net and lands in the _____ service court
 2. **Let** - both server and receiver _____ the serving rules at the _____ time

Double Bounce Ruleb

Describe the double bounce rule:

Each team must play their first shot off the bounce. The receiving team must let the serve bounce and the serving team must let the return of serve bounce before playing it.

Faults

It is a fault when:

- The ball is hit out of bounds.
- The ball does not clear the _____.
- A player steps on to the non-volley line or into the non-volley zone and _____ the ball (including on follow through.)
- A player _____ the ball before the ball has bounced once on each side of the court (Double Bounce Rule).
- A receiving player volleys the serve.
- A player touches the _____ with a paddle or any part of the body.
- An illegal player receives the _____.

Serving Faults

It is a serving fault if:

- The server does not state the score _____ serving the ball.
- The server does not keep _____ behind the baseline while serving.
- The server swings and _____
- The server does not serve _____ .
- The server serves from the incorrect service court.
- The serve does not clear the _____.
- The serve does not land in the correct diagonal service court (lines are good).

Doubles Strategies

- The team that has control of _____ will, in most instances, win the rally.
- The serve, the drive, and the smash are the major _____ strokes.
- If you are pulled out of position by a ball, use an _____ to give yourself time to get back into position.
- If both defensive players are at the net, hit _____ over their heads or _____ down the middle of the court.
- If both defensive players are in the backcourt hit a _____ shot or deep _____ shots; then charge to the volley position.
- If one defensive player is at the net and one is playing deep hit a _____ shot to the deep player or a _____ shot to the open part of the court.
- Aim for _____ and your opponent's backhand.
- The strongest server's home service court should be the _____ service court if your team serves first.

NAME _____

Block _____

Vocabulary

Backhand Stroke with the back of the hand facing the direction of movement

Baseline The backcourt boundary line

Drive A hard sidearm shot with a straight ball path

Drop shot A softly hit underhand ball that just clears the net and drops, usually hit with a chopping motion

Fault An error in the service attempt, or an improperly hit ball

Foot fault Caused by the server stepping over the baseline with both feet before serving

Forehand Stroke with the palm of the hand facing the direction of movement

Ground Strokes Strokes made after the ball has bounced (forehand or backhand)

Let A point replayed with no penalty. Usually caused by outside interference, or, during the serve when the ball touches the top of the net, but is good otherwise

Lob An overhead ball hit high enough in the air to pass over the head of the net player(s)

Non-volley zone An area by the net that cannot be entered unless the ball bounces in it

Rally Scoring Scoring method in which a point is scored by whichever team wins the rally.

Smash A hard overhead stroke with a sharply angled ball path

Volley To hit the ball before it bounces

NAME _____

Block _____

Diagram of SHOTS:

LOB



DROP SHOT



DRIVE



SMASH



NAME _____

Block _____

<p>Mile Time Goal: _____</p> <p>Per lap time needed to reach above goal</p> <p>_____</p>
--

DATE	RUN DISTANCE (i.e. ½ mile, 2 laps)	Comments	TIME

Mile Time Goal: _____

Per lap time needed to reach above goal

NAME _____

Block _____

DATE	RUN DISTANCE (i.e. ½ mile, 2 laps)	Comments	TIME

Mile Time Goal: _____
Per lap time needed to reach above goal

NAME _____

Block _____

DATE	RUN DISTANCE (i.e. ½ mile, 2 laps)	Comments	TIME

Mile Time Goal: _____

Per lap time needed to reach above goal

NAME _____

Block _____

DATE	RUN DISTANCE (i.e. 1/2 mile, 2 laps)	Comments	TIME