WHS Physical Education

Study Guides / Handouts For Major Units

STUDENT NAME
Year 1 Teacher's Name
Year 2 Teacher's Name

NAME	
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DATE	Workout of the Day	Comments	TIME

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DATE	Workout of the Day	Comments	TIME

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DATE	Workout of the Day	Comments	TIME

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DATE	Workout of the Day	Comments	TIME

Assigned Heart
Rate Monitor

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.	
Step 1	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) Caution: Do NOT push the red button again until you want to turn OFF your heart monitor. There is NOT a pause feature.	
Step 2	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).	
Step 3	Fitness Bullets: 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.	
Step 4	To stop recording, press the RED button. The display briefly shows the data recorded and returns to the time mode.	

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How	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.			
Step 7	Press the BLACK button once to display <u>Calories bured</u> while the heart monitor was on.			
	exercise summary, the unit returns to PRESS and HOLD the red button to			

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Assigned Heart
Rate Monitor

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

Assigned Heart	
Rate Monitor	

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

NAME	
Block	

WHS Heart Study Guide

Vo	Vocabulary and Important Terms:		
1	Beats per Minute:		
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	VO ₂		
8	VO ₂ MAX		
9	Target Heart Rate		
	• Lower zone		
	• Upper zone		

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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	Multiply the answer to #3 by 65% (Convert 65% to .65 to multiply)	
5	Add your resting heart rate to the answer to #4. This is your LOWER TARGET ZONE.	
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 UPPER TARGET ZONE.	

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WHS Weight Training Study Guide

There are seven fundamental <i>Principles of Muscle Development</i> 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:	
	• Low weight/high reps.	Low wt./(reps)= lean muscle,
		Improved capabilities
	• 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

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F.I.T. Principle: Three approaches to improve fitness/performance often used in combination with one another		
	How?	
Frequency:	Increase number of workouts per week	
	Example: from two to three workouts per week	
	How?	
Intensity:	Increase the intensity of the workout	
	Example: increase the amount of resistance	
	How?	
Time:	Increase the duration of the workout	
	Example: increase number of repetitions	
	and/or sets	
	und/or sers	
Vocabulary and Imp	oortant Terms:	
Repetitions (Reps.):	One lift	
Set(s):	A of reps	
	• the weight	
Eccentric:	• 3 seconds	
	• breathe	
	•the weight	
Concentric:	• 2 seconds	
	• breathe	
	Opposite (opposing) muscle groups	
Antagonistic:	Examples: 1/Hamstrings	
	2. Biceps/	
	Σ. ειτερεί	
Skeletal Muscles: voluntary muscles that allow movement		
	the joint angle	
Flexion:	(example: arm curls)	
	the joint angle	
Extension:	(example: leg extension)	
	Frequency: Intensity: Time: Vocabulary and Imp Repetitions (Reps.): Set(s): Eccentric: Concentric: Antagonistic: celetal Muscles: volution:	

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WEIGHT TRAINING

EXERCISE NAME:	TECHNIQUE:
MAJOR MUSCLES:	
EXERCISE NAME:	TECHNIQUE:
MAJOR MUSCLES:	
EXERCISE NAME:	TECHNIQUE:
MAJOR MUSCLES:	

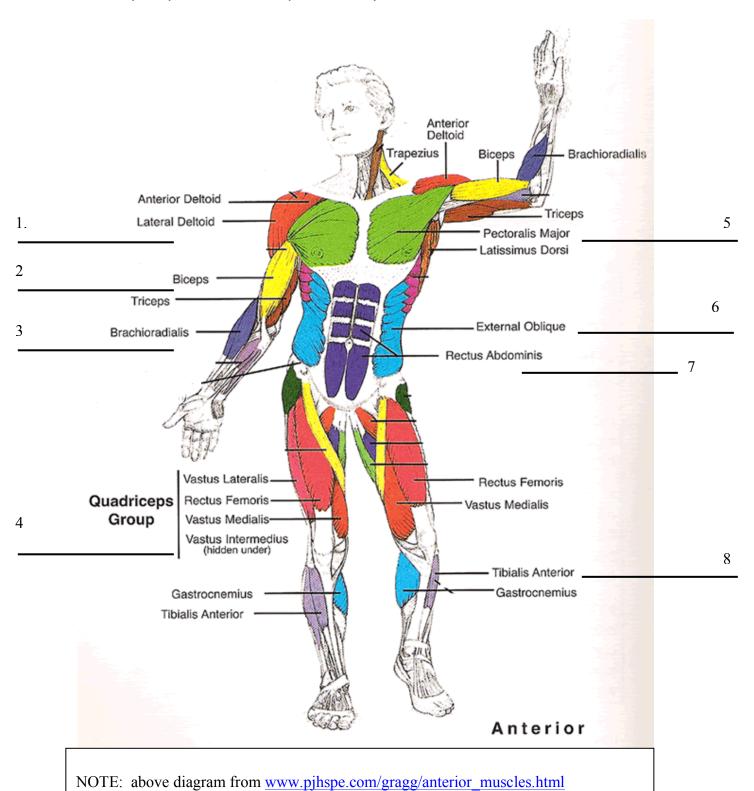
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EXERCISE NAME:	TECHNIQUE:
MAJOR MUSCLES:	
EXERCISE NAME:	TECHNIQUE:
MAJOR MUSCLES:	
EXERCISE NAME:	TECHNIQUE:
MAJOR MUSCLES:	

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ANTERIOR MUSCLES

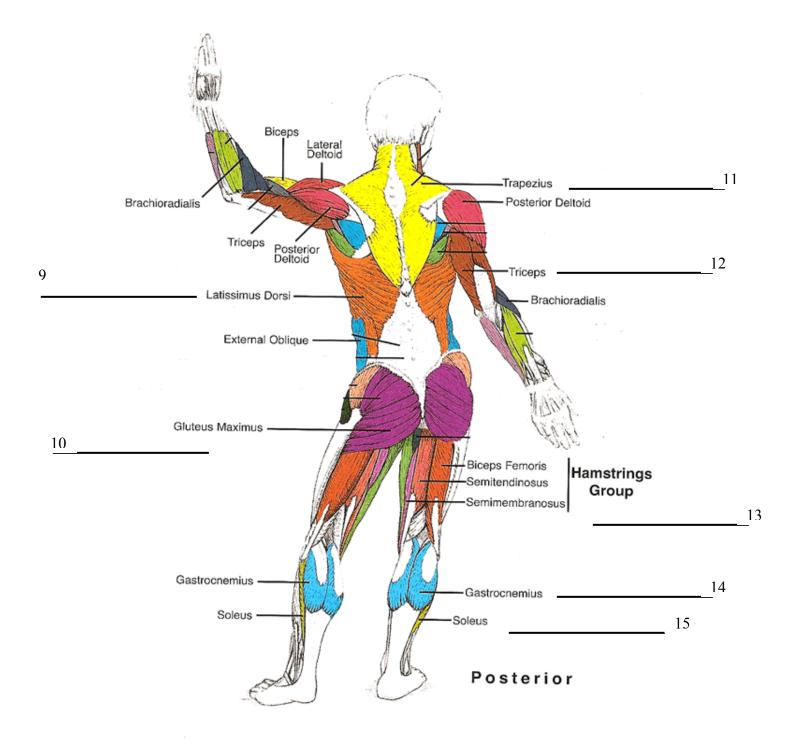
Label (1-15), the function (movement) of the muscles.



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POSTERIOR MUSCLES



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

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Basketball Study Guide

Skills	
	Purpose: To move the ball into position for a pass or a shot
Dribbling	 Key points: Dribble with
	down the court
	 Endowing with the ball (not including pivoting) while holding the ball Comparison of the ball (not including pivoting) while holding the ball Comparison of the ball (not including pivoting) while holding the ball (not including pivoting) Comparison of the ball (not including pivoting pivo
Dassina	Purpose: To move the ball down the court (faster than a dribble) To move the ball to an open teammate
Passing	Key points:
	 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: Traveling (see above)

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	Purpose: To score		
Shooting	Key points:		
 			
	Rules: : 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		
	Purpose: To score on a drive to the basket		
Lay-ups	 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)		

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	Purpose: To prevent the offense from scoring
	Terms:
Defense	: 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:
	 Bend at the knees and stay Maintain position between the offensive player and the
	 Move laterally (side to side) byfeet Useto interfere with the ball
	Rules:
	Personal foul – illegal contact with opponent (Blocking, Holding, Hacking, Reaching).
	Purpose: Offensive move to free a teammate from the defense
	Key points:
Screen & Roll	• Use a to set the screen
TOIL	Keepfirmly planted andslightly
	 Position the screen so that the screener's body will block the
	defender • When rolling, so that you are the
	ball
	Screens can be setBall andBall
	Rules:
	Personal foul:screen, illegally moving to maintain a screen after setting the screen

Racket #	
-	

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BADMINTON STUDY GUIDE

THE GAME

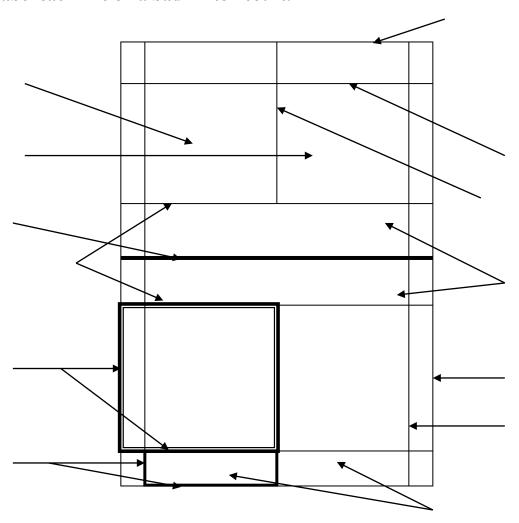
Badminton is a game (singles, doubles, mixed doubles) played over a net using racquets and shuttles with strokes that vary from relatively slow to quick and deceptive. It is considered to be the fastest court game in the world.

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 dou	bles are played to	_ points.
•	The team that wins the	scores a point. (Every time	e 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.	
DOU	BLES SERVING with RAL The score must always be annot	LY SCORING unced serving. Say	y server's score
•	Only team member gets team.	s to serve before the shuttle is tur	rned over to the
•	Begin the game by serving from	the service cour	rt. The score is
	<u> </u>		
•	is an even number		
•	Server and partner switch (rally.) service courts when	1 they the
•	Only the ro	otates courts when they win a	<u> </u>
•	A server will continue to serve	until the serving team	the rally.
•	Your team's score isservice court.	(0,2,4,6,8 etc.) when serving	g from the
•	Your team's score isservice court.	(1,3,5,7,9 etc.) when serving	g from the
•		esults in the loss of the serve () and the
	team s		
•		service attempt(s) unless he/s	she has a Let (do-over)
•	A is a point that is re		and a zer (do over)
•		terference or both the server and	l receiver

NAME	
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SERY	VICE	FAI	ILTS

•	Line violation ()
•	When serving, not hitting shuttle and below the
•	Not servingacross 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 bothin contact with ground until shuttle is
•	Making with the shuttle more than
•	Stopping in (feinting)
•	Not stating the before serving
	<u>DINTS</u>
Ei	ther 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 thewithin legal boundaries
•	Deliberately "" or "" the shuttle on the racquet
•	Do anything to interfere with opponents' hit
•	Gothe 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	
Block	

GAME STRATEGY

•	Vary your	(short, long, forehand, backhand)	
•	Place your	, hit to your opponents'	
•	Aim for an	nd	
•	your shots (clears, dropshots, drives, smashes)	
•	Base your return shot on your	opponents'	
•	Move your		
•	of the gam service cou	ne place your nrt IF you are the SERVING team	_in the
•	of the gam	ne place your nrt IF you are the RECEIVING team	_in the
•	Confuse your opponents by	for the	
•	Bring the shuttle	as quickly as possible	
RAC	KET POSITIONS:		
	Racket: Racket face is angled to the shuttle will travel		
Close	d Racket: Racket face is angled The shuttle will travel		
the	re Racket: Racket face is perpe The shuttle will trace floor and in a straight line.		

•	Stand near the	service lin	e
•	Can be hit forehand of	or backhand	
•	Gently push shuttle a	nd use little	
•	Bird is hitand	close to your	
	opponent's short serv		
•	Used to force your op	ponent closer to	the
•	Used to force your op	ponent to retur	n the
	shuttle wit		
•	Stand near the	servic	e line
•	Stand near the Use forehand and a st		
•	Use forehand and a st	taggered · weight from yo	
•	Use forehand and a st your foot to your front foot	taggered · weight from yo t	our bac
•	Use forehand and a st	taggered · weight from yo t	our bac
•	Use forehand and a st your foot to your front foot Snap wrist and follow waist Contact shuttle with a	taggered · weight from yo t v-through above an	our bad your racke
•	Use forehand and a st your foot to your front foot Snap wrist and follow waist Contact shuttle with a Shuttle is hit	taggered veight from yo t y-through above anandand	our bac
•	Use forehand and a st your foot to your front foot Snap wrist and follow waist Contact shuttle with a	taggered veight from yo t y-through above anandand	our bac your racke
• • • • • • • • • • • • • • • • • • • •	Use forehand and a st your foot to your front foot Snap wrist and follow waist Contact shuttle with a Shuttle is hit	taggered veight from yo t y-through above anandand	our bac your racke
•	Use forehand and a st your foot to your front foot Snap wrist and follow waist Contact shuttle with a Shuttle is hit	taggered veight from yo t y-through above anandand	our bac your racke
•	Use forehand and a st your foot to your front foot Snap wrist and follow waist Contact shuttle with a Shuttle is hit	taggered veight from yo t y-through above anandand	our bac your racke

DIAGRAMS OF SHOTS:

DIAGRAMS OF SERVES:

Short Serve

Long Serve

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
Cmach	
<u>Smash</u>	• Fast, "kill" shot
	Make contact overhead with aracket
	• Turn shoulder to the net
	(forehand smash) • Rend elbow and lock your wrist, preparing to
	 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
II	 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	
<u> </u>	• shot hit near the net
	 Forehand or backhand shot
	 Contact shuttle near the net with an racket
II I	 Push shuttle and just over the net
	• Forces your opponents to move toward the
	• Forces your opponents to return the shuttle
	with an hit
<u>Drive</u>	
	• 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
	Can be nit for chang of backhang

NAME	
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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.

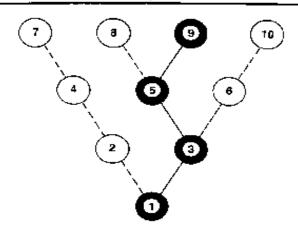
THE FOUR STEP APPROACH

- 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.

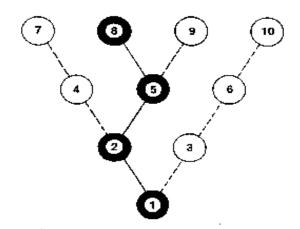
THE PERFECT STRIKE

- 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 Bail. 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 sonds 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.

NAME	
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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

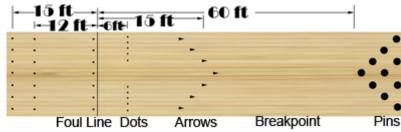


Diagram a diagonal STRAIGHT ball into the 1-2 pocket for a LEFT handed bowler

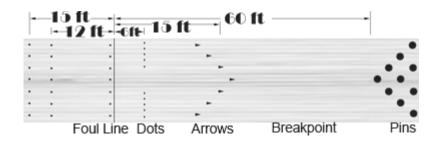


Diagram a diagonal STRAIGHT ball into the 1-3 pocket for a RIGHT handed bowler

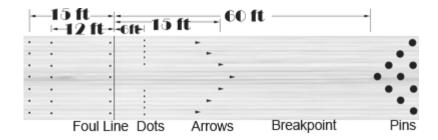


Diagram a HOOK ball into the 1-2 pocket for a LEFT handed bowler

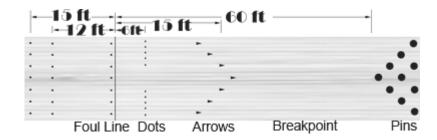


Diagram a HOOK ball into the 1-3 pocket for a RIGHT handed bowler

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

PICKING UP SPARES

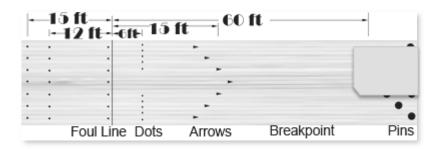


Diagram a diagonal straight ball from left to right to pick up right side spares

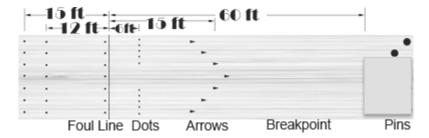


Diagram a diagonal straight ball from right to left to pick up left side spares

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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

S 7	2.
•	

• 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.

	5 4
19	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	9
19	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	8
7	15

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HOW TO FIGURE OUT YOUR AVERAGE

Individual average:

TOTAL # PINS KNOCKED DOWN TOTAL # GAMES PLAYED

Example:

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

HOW TO FIGURE OUT INDIVIDUAL HANDICAP

Individual team handicap formula:

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

Example:

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

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

HOW TO FIGURE OUT TEAM HANDICAP

Team handicap formula:

Player 1 handicap + Player 2 handicap + Player 3 handicap + Player 4 handicap = Team handicap

Example:

Team Handicap 285

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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.

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III. Lacrosse Rules

1.	Begin the game with a free pass from the The ball must be passed to put it in play. After a goal, begin play with a free pass from the centerline.
2.	On a free pass the opposing team must be at least away. You may not on a free pass.
3.	Play the ball, not the opponent. (No crosse (stick) or body contact allowed) Although permitted in the official game, body and stick checking are <u>not</u> allowed in physical education Lacrosse. <u>PENALTIES</u> FOR CHECKING, SLASHING, TRIPPING, HOLDING, PUSHING, ROUGH PLAY, may include removal from the game.
4.	Do not bat or the ball. Gain possession, then pass or shoot.
5.	the ball when it is on the ground. Do NOT cover or trap the ball with the lacrosse basket.
6.	You haveseconds 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.
7.	Players must keep hands on their sticks.
8.	The ball must be passed over (not carried over) the
9.	Play should be (no stalling).
10.	No one is allowed in the If the ball stops in the crease, the team will retrieve the ball and get a free pass from outside the crease.
11.	Player-on-player defense only. Double/triple teaming isallowed.
12.	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

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

NAME	
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IV.	Lacrosse	Field	Positi	ons:
				11117.

<u> </u>	Laciosse i icia i ositi	UII 5 ·		
1.	: Players whoffensive half of the field.	ose primar	y purpose is to sc	ore. Attackers must stay on the
2.	: Players who from their opponents, and transpersed to the Defenders must remain in the	nsferring tl	hat possession to	ing the goal, stealing possession their midfielders or attackers.
3.	: Players who defense and offense. Midfield			the entire field playing both se.
4.	: The goalie crease.	is a defens	ive player and is	the only one allowed in the
<u>V.</u>]	Lacrosse Field			
	A Lacrosse field is 110 yards le 15 yards behind each goal. The is an 18ft. di be in the crease.	e field is di	vided in half by a	• •
	Label the field diagram below	. Include:	Sideline Endline Centerline Crease Goal Offensive half Defensive half Attackers (A) Midfielders (M) Defenders (D) Goalie (G)	

NAME	
Block	

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 s	side, black on the other side
heside sh	nould be to your
he sid	le should be to your
Frip the racket so the lowest pe	ortion of the paddle face is between your
and	
he remaining	fingers grip the
Oo not touch the rubber surface	es of the paddle because
	<u>.</u>
y Position	• • • • • • • • • • • • • • • • • • •
y Position Your feet are	apart.
v	apartat the waist

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F	^	_	4.		_		Ι.
n	a b	4 6		w	4 1	r	ĸ

T 1		to	
Take	steps	a 11	
When playing doubl	es,	after hitting	the ball
To move left, lead w			
To move right, lead	with the	foot	
oring			
The	team an	nd thents but you must win by	_ team can score a poir
Table Tennis is play	ed to poin	nts but you must win by	points
ving Mechanics			
The ball must be tos	sed at least	inches into the air from a	anpaln
		the end of the table	
		the	
vice Rules (For 1	Doubles)		
All serves are from t	the	to the	
Each player will serv	ve	in a row	
In doubles immedia	tely	afte	er the 2 nd serve is playe
out.		directio	on
out. The ball is served in	a	direction	n
out. The ball is served in Balls that land on the	ae	directio are good after 6	
out. The ball is served in Balls that land on the If the score is 10 to 1	ae e10erves are serves that	are good after et touch the net and land in the co	each point
out. The ball is served in Balls that land on the If the score is 10 to 1 Let serves	ae 10erves are serves that	are good after et touch the net and land in the co over.	each point rrect service court.
out. The ball is served in Balls that land on the If the score is 10 to 1 Let serves	ae 10erves are serves thatonce on	are good after of t touch the net and land in the co over. the server side before going over	each point rrect service court.

NAME	
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Racket Position

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

Serving with spin

Forehand, backhand serve with topspin

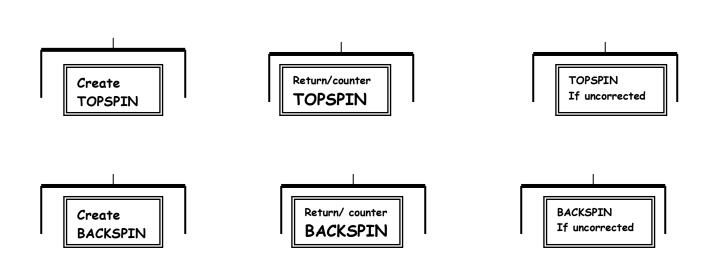
- Create topspin on the forehand and backhand serve by _____ the paddle against the ball in an _____motion.
- The stroke begins with the paddle held _____and ends with the paddle held _____ with a _____ face.

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 ______ and ends with the paddle held ______ and ends with the paddle held _______ and ends with the paddle held ______ and ends with the paddle held _______ and ends wit

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 _____.



NAME	
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To	Return	Spin
----	--------	------

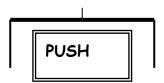
To return backspin use a slightly To return topspin use a To return side spin hit the ball to the	face racket
To return side spin hit the ball to the	of the table
<u>trokes</u>	
Strokes are defined as	
The two types of strokes are	
Offensive strokes are used to	
Defensive strokes are used to	
Offensive strokes	
Forehand topspin	
 After the bounce, brush the ball 	with your paddle in a
position to	o create topspin.
• Your is close to	o your side.
	and finish the stroke high like a
Backhand topspin	
	with your paddle in a
position	with your paddle in a to create backspin.
• Youris o	close to your side.
Start with your paddle	
The wrist is used to	
Smash_	
	to put away the point.
Hit the ball after the bounce	
Keep your	
• For maximum speed,	
1 or maximum speed,	
CMACH	
SMASH	Counter SMASH
	JIMASH .

NAME	
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Defensive strokes

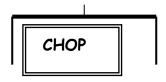
Push

- The is a short, defensive stroke used when player is close to table
- 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



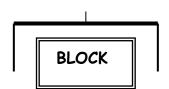
Chop

- 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
- 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

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?

kill:Foream Pass, "BUMP"
Key Points:
1.
2.
3.
4.
Coaching Cues:
*
*
*
*
*
Notes: "Dig" is a

NAME	
Block	

	SkillSetting / Overhead Pass
	Key Points:
	1. 2. 3.
	Coaching Cue:
	*
· · · · · · · · · · · · · · · · · · ·	Note: sets are

Skill <u>HITTING / SPIKE (Kill) (Attack)</u>

Key Points:

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

Coaching Cues:

*

*

NAME	
Block	

Skill _	Serve (Floater)
	Key Points:
	4.
	Coaching cues: * * *

Skill Blocking	
Key Points: 1. 2. 3.	
Coaching cues: Stance: * * * * *	

NAME	
Block	

THE GAME

Volleyball is a $\underline{\text{six}}$ (6) person team sport played on a $\underline{\text{court}}$ (30'X60') divided by a $\underline{\text{net}}$ (7'4" in height for girls and 8'for boys). Each team tries to cause the opposing team to be $\underline{\text{unable}}$ 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 <u>25 points</u> and be at least <u>2</u> points ahead of their opponents to win the game.

SERVICE

The game begins by a <u>serve</u> (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

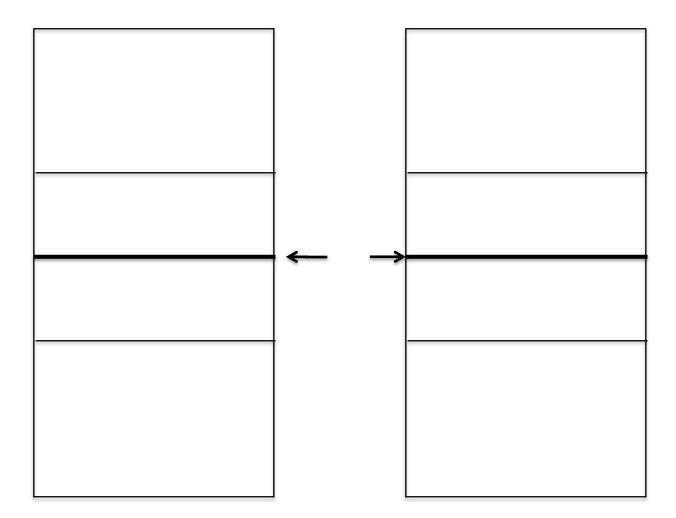
- All players must rotate one position in a clockwise direction before their team receives the serve
- All players must maintain their position until the ball is served
- Back row players can only spike (attack) from behind the 10 foot line
- Back row players can not block the ball
- Each side is allowed 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



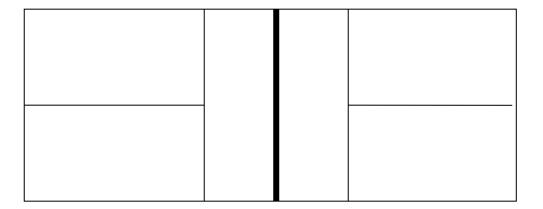
	NAMEBlock
Paddle #	
	PICKLEBALL STUDY GUIDE

Description

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

Et	iquette/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.
G	ame 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

•	At the start of a game, the 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
	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.
D	OUBLES SERVING with RALLY SCORING
D'	OCDEES SERVING WILLIAMEET SCORING
_	Dielelelellie ulerelde uneinde bedecken werdenig be
•	Pickleball is played to points but a team must win by points.
•	The score must always be announced serving. Say server's score
•	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 theteam 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
	J 1
	1. <u>Let</u> -the point is replayed because of outside interference or the ball the net and
	1. <u>Let</u> -the point is replayed because of outside interference or the ball the net and

Double Bounce Rule

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 volleying it.

NAME	
Block	

Faults

serves first.

It is	s 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
Se	rving Faults
It is	s 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).
<u>Do</u>	oubles 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

51

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

<u>Drop shot</u> 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)

<u>Let</u> 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:	DROP SHOT
<u>LOB</u>	
	DRIVE
SMASH	
SWASH	

ile Time Goal:	NAME Block				
r lap time needed to reach ove goal					
	<u>]</u> M]	ILE TIMI	ES		
Block			Date _		
Name	Lap 1	Lap 2	Lap 3	Lap 4	
Splits:					
			Date _		
Name	Lap 1	Lap 2	Lap 3	Lap 4	
Splits:	_				
Block			Date _		
Name	Lap 1	Lap 2	Lap 3	Lap 4	
Splits:					
				Date	
Name	Lap 1	Lap 2	Lap 3	Lap 4	
Splits:		I			

Sime Goal:	NAME Block			
p time needed to reach goal 	M	ILE TIMI	ES	
Block	I		Date _	
Name	Lap 1	Lap 2	Lap 3	Lap 4
Splits:				
			Date _	
Name	Lap 1	Lap 2	Lap 3	Lap 4
Splits:				
Block			Date _	
Name	Lap 1	Lap 2	Lap 3	Lap 4
Splits:	_			
				Date
Name	Lap 1	Lap 2	Lap 3	Lap 4
Splits:				

ime Goal:		NAME Block		
p time needed to reach goal	M	ILE TIMI	ES	
Block	_		Date	
Name	Lap 1	Lap 2	Lap 3	Lap 4
Splits:	_			
Block			Date	
Name	Lap 1	Lap 2	Lap 3	Lap 4
Splits:				
Block			Date _.	
Name	Lap 1	Lap 2	Lap 3	Lap 4
Splits:				
Block				Date
Name	Lap 1	Lap 2	Lap 3	Lap 4
Splits:				

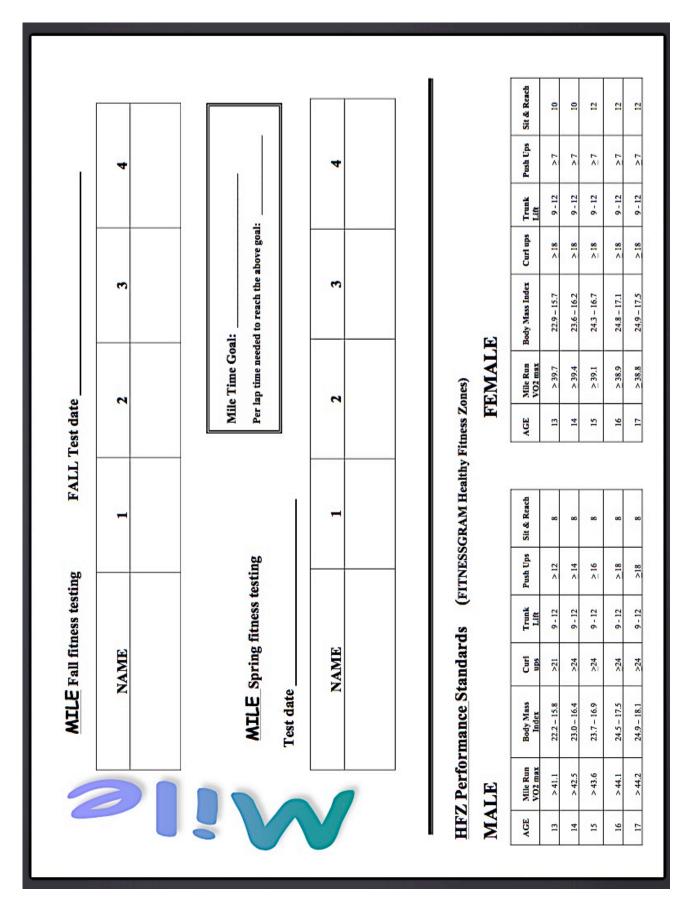
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r lap time needed to reach ove goal	M)	ILE TIMI	ES	
Block	<u>J</u>		Date _	
Name	Lap 1	Lap 2	Lap 3	Lap 4
Splits:				
Spins.				
Name	Lap 1	Lap 2	Lap 3	Lap 4
Splits:				
Block			Date _	
Name	Lap 1	Lap 2	Lap 3	Lap 4
Splits:				
				Date
Name	Lap 1	Lap 2	Lap 3	Lap 4
Splits:				

NAME	
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Fitness Testing

A good fitness program will begin with an assessment of your current fitness. Muscular strength, endurance and aerobic exercise are vital to our physical health, and our ability to perform exercise. Over time, you should see gains in strength, endurance and flexibility. A healthy diet (lots of fruits, vegetables and protein), complements your training and should be included to see the greatest gains in overall fitness and physical appearance.

Fitness Test	PRE-TEST (FALL)	GOAL for Spring Fitness Testing	SPRIN	SPRING TEST	Did you meet the HFZ for your age and gender?	Did you meet your GOAL?
Push-ups			Push-ups		Yes No	Yes No
Curl-ups			Curl-ups	(Max. score is 75)	Yes No	Yes No
Sit å reach	/ LF. / RT.	/ LF. / RT.	Sit & reach	/ LF. / RT. (Max. score is 12)	Yes No	Yes No
Trunk Lift			Trunk Lift	(Max. score is 12)	Yes No	Yes No
Shoulder Stretch	/ LF. / RT.	Pass / Pass LF. / RT.	Shoulder Stretch	/ LF. / RT.	Yes No	Yes No
Mile	Time	Time	Mile	Time	Yes No	Yes No
Height/Weight	/	Optional Weight	Ht/Weight	/	Yes No	Yes No



NAME	
Block	

Fitness Testing

A good fitness program will begin with an assessment of your current fitness. Muscular strength, endurance and aerobic exercise are vital to our physical health, and our ability to perform exercise. Over time, you should see gains in strength, endurance and flexibility. A healthy diet (lots of fruits, vegetables and protein), complements your training and should be included to see the greatest gains in overall fitness and physical appearance.

Fitness Test	PRE-TEST (FALL)	GOAL for Spring Fitness Testing	SPRIN	SPRING TEST	Did you meet the HFZ for your age and gender?	Did you meet your GOAL?
Push-ups			Push-ups		Yes No	Yes No
Curl-ups			Curl-ups	(Max. score is 75)	Yes No	Yes No
Sit & reach	/ LF. / RT.	/ LF. / RT.	Sit & reach	/ LF. / RT. (Max. score is 12)	Yes No	Yes No
Trunk Lift			Trunk Lift	(Max. score is 12)	Yes No	Yes No
Shoulder Stretch	//	Pass / Pass LF. / RT.	Shoulder Stretch	/ LF. / RT.	Yes No	Yes No
Mile	Time	Time	Mile	Time	Yes No	Yes No
Height/Weight	/BMI	Optional Weight	Ht/Weight	/	Yes No	Yes No

		WILE	Fall fit	MILE Fall fitness testing	ting	FA	FALL Test date	late				41	
			NAME			-		2	3			4	
		MILE Spring fitness testing Test date	Spring	fitness (testing			Mile Time Goal: Per lap time needed	Mile Time Goal: Per lap time needed to reach the above goal:	above goal			
		-	NAME			-		2				4	
HFZ	, Perfo	HFZ Performance Standards	tandar		HINESS	(FITNESSGRAM Healthy Fitness Zones)	ulthy Fitnes	s Zones)					
MALE	3						L	FEMALE	3 -				
AGE	Mile Run VO2 max	Body Mass Index	Curl	Trunk	Push Ups	Sit & Reach	AGE	E Müle Run VO2 max	Body Mass Index	Curl ups	Trunk	Push Ups	Sit & Reach
13	>41.1	22.2 - 15.8	>21	9-12	> 12	00		13 > 39.7	22.9 – 15.7	> 18	9-12	>7	10
41	>42.5	23.0 – 16.4	>24	9-12	> 14	œ		14 > 39.4	23.6 – 16.2	× 18	9-12	>7	10
15	>43.6	23.7 – 16.9	>24	9-12	> 16	8		15 ≥39.1	24.3 – 16.7	> 18	9-12	>7	12
16	>44.1	24.5 - 17.5	>24	9-12	> 18	œ		16 >38.9	24.8 – 17.1	81 <	9-12	>7	12
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