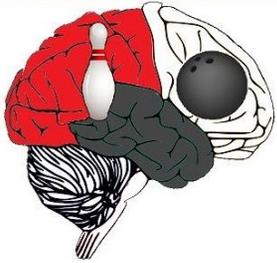


STRIKING MASTERMIND



Ten Pin Staffers



BOWLOLOGY

Josh Hyde Bowling Presents The Ten Pin Academy

This program is designed for all bowlers,
beginners to advanced –
to help them improve their
knowledge of the sport.

Introduction to Josh Hyde Bowling



Introduction to Josh Hyde Bowling

- Probowlersuperfan.com launched in the Fall 2005.
- Josh Hyde's Bowling Newsletter formed in June 2008.
- Joshhydeb bowling.com launched in the Fall of 2010.
- Credentials-
 - PBA honorary member since 2001
 - IBMA member since 2006
 - Vise* Regional staff member since 2015
 - Written for *Stars & Strikes*, *Bowlers Journal International*
American Bowler
 - High game of 277 on Chameleon pattern
 - Three 700 series
 - 725 high series
 - USBC Bronze certified coach
 - Winner of 16 IBMA bowling writing awards

Bowlology

The study of bowling,
with the student gaining
more knowledge of and
more respect for the sport.

Overview of Bowlology

- To help bowlers, from beginner to advanced, understand the game of bowling .
- Josh Hyde, a USBC Bronze Level coach, shares his knowledge of the game.
- Bowlology is a column in the Josh Hyde's Bowling Newsletter.

Bowlology - The Perfect Strike

The perfect strike - the ball takes out four pins (1,3,5,9). The green lines on the figure below (Figure 1-1) show the ideal ball path.

Non-bowlers often fail to understand that hitting the headpin straight on will rarely produce a strike.

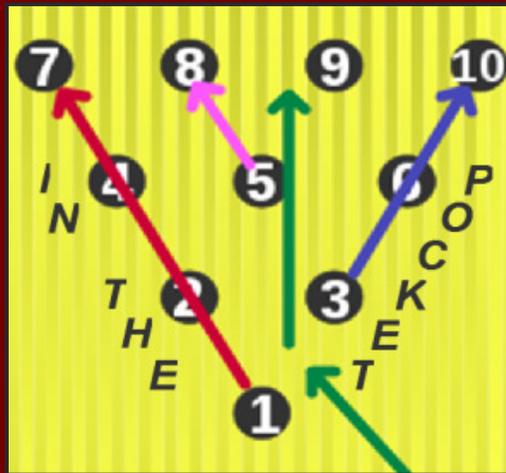


Figure 1-1

Bowlology - Keeping Score

- Strike = "X" (10 pins) + next two balls
- Spare = "/" (10 pins) + next ball
- Open = "-" two balls added together
- Split = Circle around # (Figure 1-2, Frame 3) on score sheet
- Tenth Frame – if a bowler scores a spare or strike. They get one to two extra balls.

1	2	3	
X	9 /	8 1	
20	38	47	

Figure 1-2

Bowlology – Timing

When a new bowler starts out, he/she needs to realize how essential timing is for being a successful bowler. Perfect timing is when the ball and feet move at the same time. Imagine a finger and a toe are attached by a string. If one moves, the other one moves. This is perfect timing. In a four step approach, the bowler's steps are matched by ball movements. 1:1, 2:2, 3:3, 4:4 – With each step, the ball moves to a different advancing position in the approach.

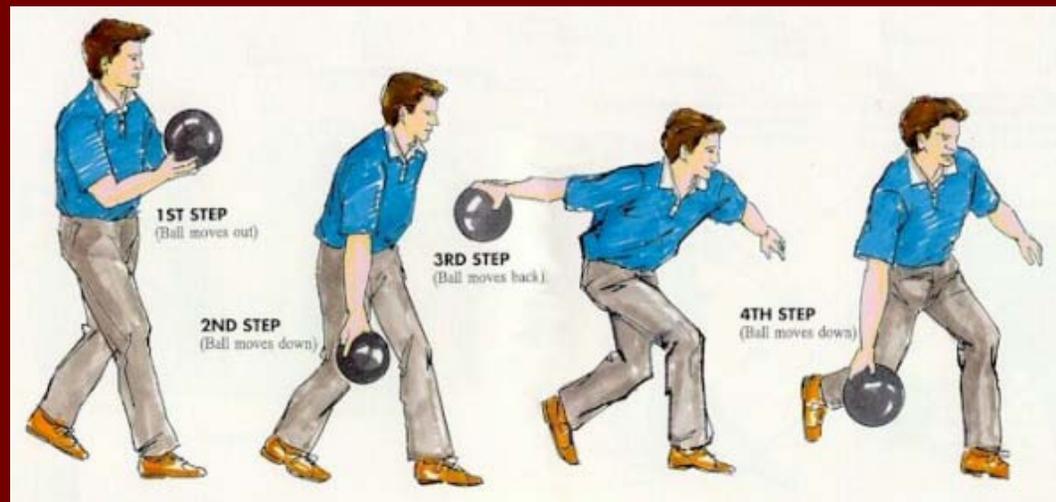


Figure 1-3

Bowlology-Spare Making

No matter how easy the lane conditions might seem, bowlers are ALWAYS going to have to deal with a spare during the duration of a competition. Straighter is greater in spare making.

#1 is taking the lane conditions out of the equation. # 2 is the bowler has greater success by going hard and straight at the spare. The best ball to shoot at spares is a plastic ball. Plastic goes much straighter and it does not hook as much as the high tech bowling ball of today.

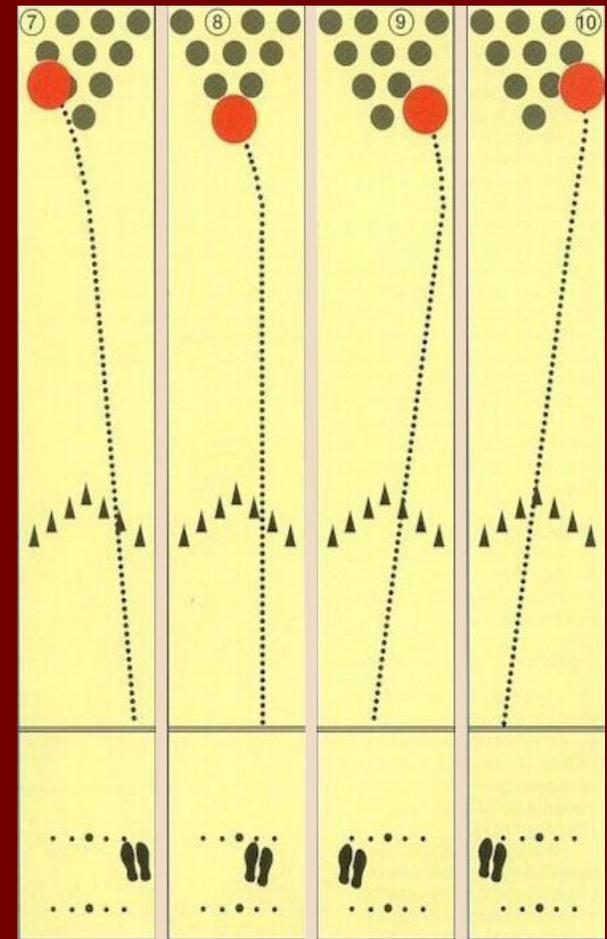


Figure 1-4

Bowlology- Splits

The split is where two or more pins are not adjacent to each other sometimes in groups. However when a bowler leaves a 1-2-4-10 known as the "Washout" it is not considered a split because the Headpin is in the spare cluster. The figures to the right show examples of splits. The 3-10 split is known as a baby split. Another baby split is the 4-5 split. The 4-5 split once again is more makeable than a 2-10 split because the ball can takeout both pins the odds drastically go up. The higher percentage is being able to take out as many pins with the ball. On figure 1-6 these splits are harder to make because the bowler has to rely on the pins bouncing the right way to get the other pins knocked over. Many bowlers will go for the high count to minimize the damage after they have left a big split.

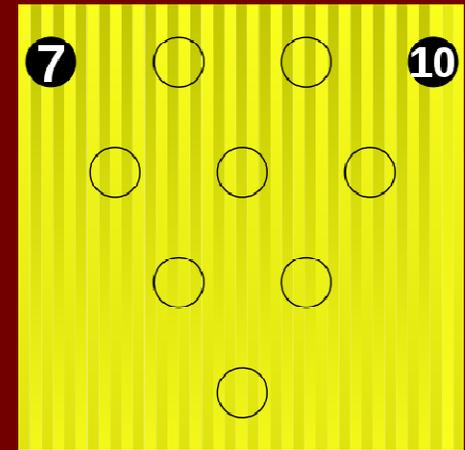


Figure 1-5

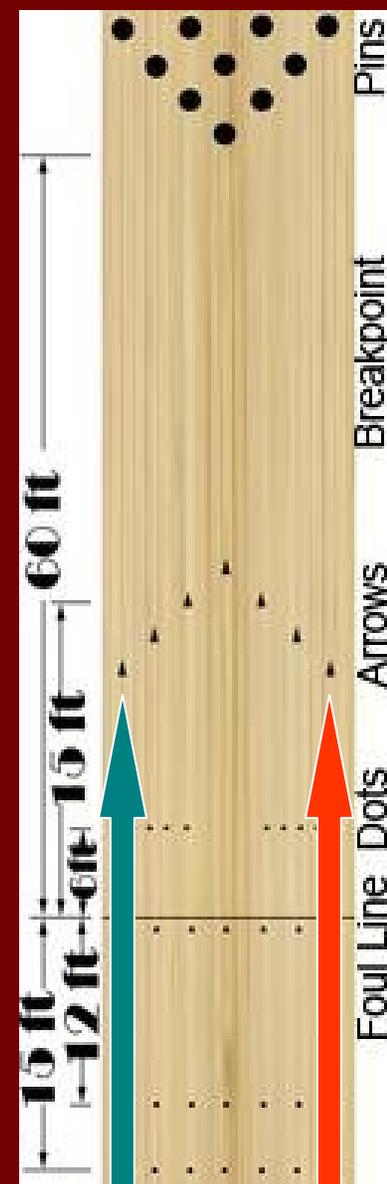
Configuration	Name
	4-6-7-9-10 "Greek Church"
	4-6-7
	7-10 "Bed Posts"
	4-6-10
	3-7-9
	4-6-7-10 "Big Four"
	4-6-7-8-10 "Greek Church"
	2-8-10
	4-6
	7-9

Figure 1-6

Bowlology-Reading The Lane

In bowling there are a series of dots, arrows, and pins. There are five boards between each dot the first dot on the lane is known as fifth board. The fifth board is also the first arrow between the foul line to the headpin is 60 feet. From the foul line to the start of the approach is another 15 feet. The middle arrow is the 20th board it is also where the headpin is positioned. Right handers (*Righties*) read the lane from right to left. Left handers (*Lefties*) read the lane left to right. Bowlers should look at the arrows rather than the pins at the end of the lane before the ball goes past the arrows, this will lead to more consistent in the pocket shots. Looking closer is better than looking further down the lane. The figure at the right shows the general layout of the lane and positions for the Left-Handed and Right-Handed bowler arrows.

Figure 1-7



Left-Hander First
Arrow

Right-Hander First
Arrow

Bowlology

In the Josh Hyde Bowling Ten Pin Academy bowlology is for the beginner bowler. So that they can understand the fundamentals of bowling from the perfect strike to the lane. It is a resource for the beginner to understand the sport of bowling in the simplest terms possible. If the bowler can understand this material then they can move on to a higher understanding of the sport.

Striking Mastermind Overview

- Designed by the Ten-Pin Staffers of Josh Hyde Bowling.
- This program is to help bowlers with their level of knowledge of the sport.
- These bowlers bowl scratch tournaments, PBA Regionals, and PBA Tournaments.

Striking Mastermind Exam

- The Striking Mastermind exam deals with scoring, lane play, ball motion, lane courtesy, and strategic bowling.
- Scratch tournament bowlers gain more knowledge through completing the exam.

Striking Mastermind - Arsenal

In golf, a golfer has certain clubs that he/she needs to be a successful golfer – driver, pitching wedge, sand wedge, irons, and putter.

Likewise, in bowling, a bowler needs a good arsenal that promotes accuracy on the lanes.

Often bowlers go in the pro shop to get the latest, greatest, “hooking-est” ball. This may not always be the best course of action. Bowlers really need to have a good variety of balls – arsenal - in their bag.

Striking Mastermind - Layouts

The figure below shows six basic layouts that a bowler can use to maximize their potential on the lanes. Going from the left image to the right image on the top row is the least amount of track flare potential, on the bottom row is the most track flair potential with the three layouts a bowler will experience an increasing amount of track flare potential. This will give a bowler more options in their arsenal so they can use the best ball for the lane conditions they are facing. Bowlers should confer with their Pro Shop Operator as to the best layout for them.

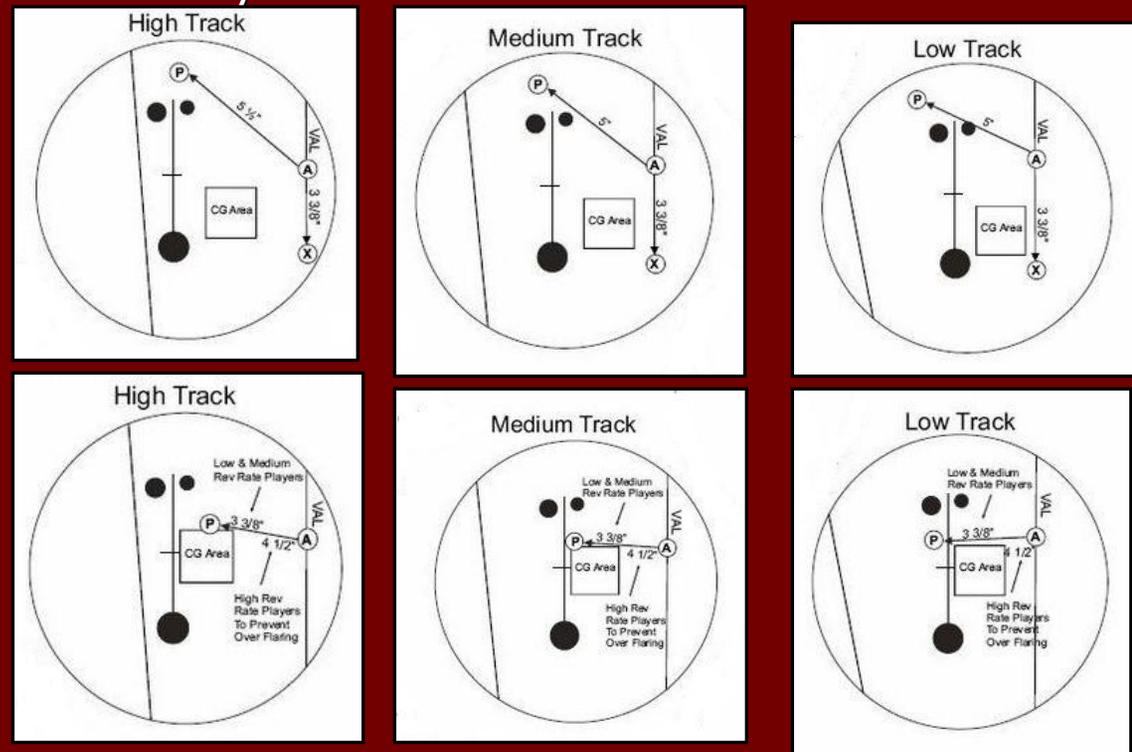


Figure 2-1

Striking Mastermind – Ball Surfaces

Ball surface plays a big role in the game of bowling. The surface change rule is that a bowler is only allowed to change the surface of the ball before league or tournament play starts. There are three main ball surfaces - sanded, benchmark, and polished. Sanded is when the ball has the least amount friction between the ball and the lane. This surface is better when there is more oil on the lane. Benchmark is best when the lane is going through transition where the bowler may not need the ball to read the lane early. Polished is best when the lane does not have as much oil on the heads of the lane. A benchmark ball has a little more surface than a polished ball but not as much a sanded ball would have.

Striking Mastermind – Ball Motion

Ball motion is critical in bowling. It can mean the difference between a flush strike, a 2-8-10 split, or even a washout. There are three phases in ball motion – skid, hook, and roll. In the first phase (skid phase), the ball speed is at its highest, whereas, the revolutions and the friction between the ball and the lane are at their lowest. In the next phase (hook phase), the ball speed decreases, while revolutions and friction between the ball and the lane increases. In the last phase (roll phase), the ball speed is at its lowest; and, the revolutions and friction between the ball and the lane are at their maximum. At this point, the ball rolls into the pins in a straight line.

Understanding ball motion will help bowlers understand what their ball is doing while it is migrating down the lane.

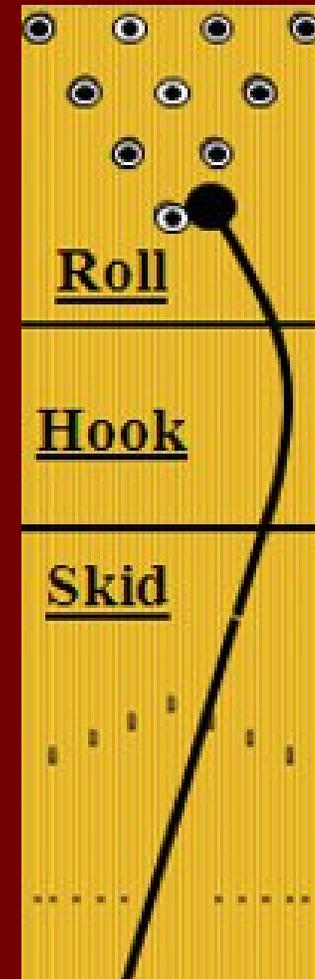


Figure 2-2

Striking Mastermind - Adjusting to the Lane Conditions

If a bowler is having trouble getting to the pocket, he or she can make a ball change or adjust their position on the lane according to the how the ball is reacting on the lane.

When the bowler says they made a 2:1, the first number represents the feet, the second number represents the ball. Often amateur bowlers forget that they can move on the lane and stick with the same ball. Adjusting can help a bowler to get back to the pocket and keep on striking and scoring.

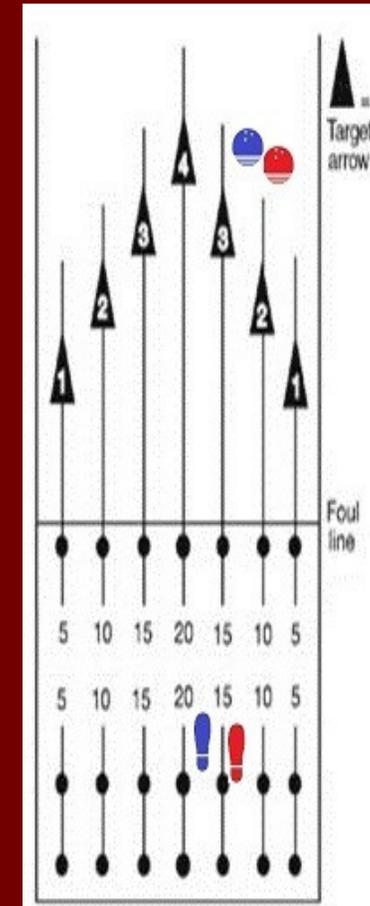


Figure 2-3

Striking Mastermind – Adjusting Part II

There are three main common adjustments that bowlers can make - 2:1 move, abstract, and parallel. The 2:1 move is where the bowler moves two with their feet and 1 with the ball – see below.

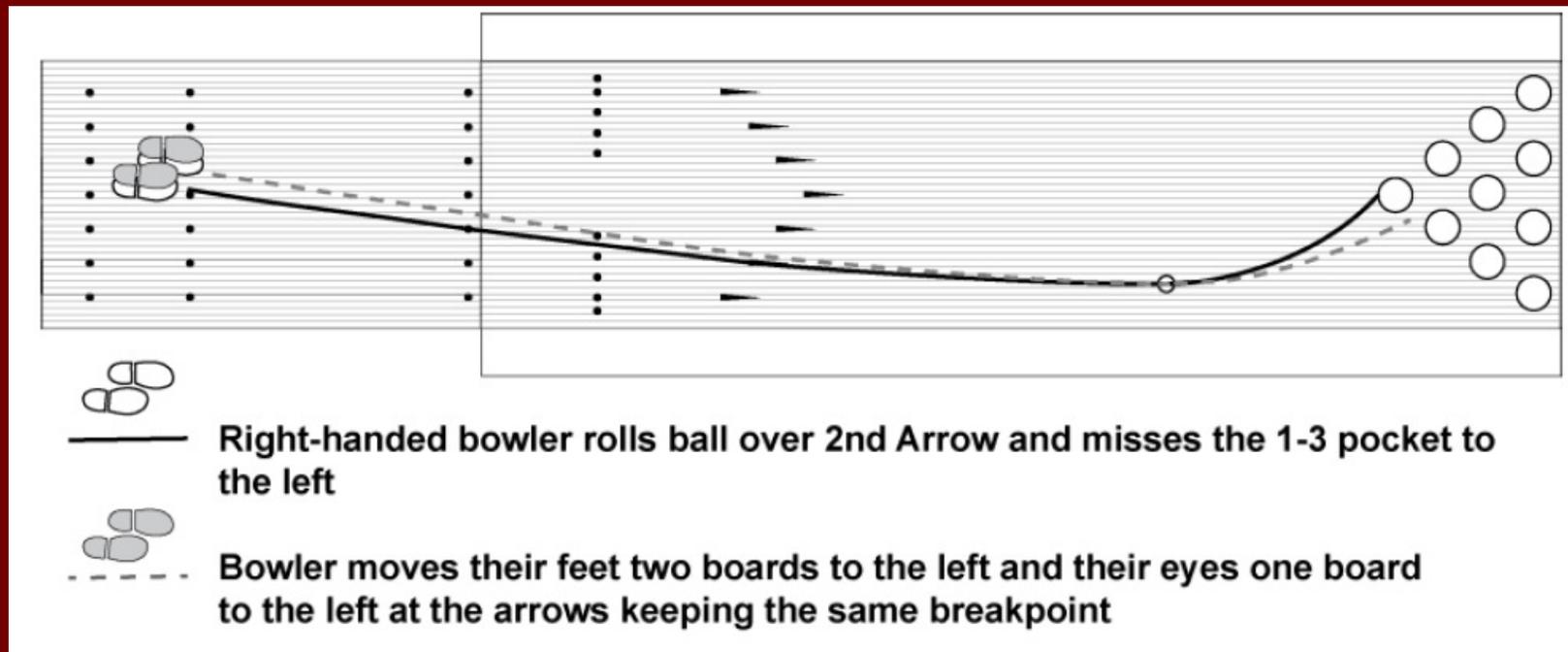


Figure 2-4

Striking Mastermind – Adjusting Part II

Abstract is where a bowler moves the ball or their feet, not both.

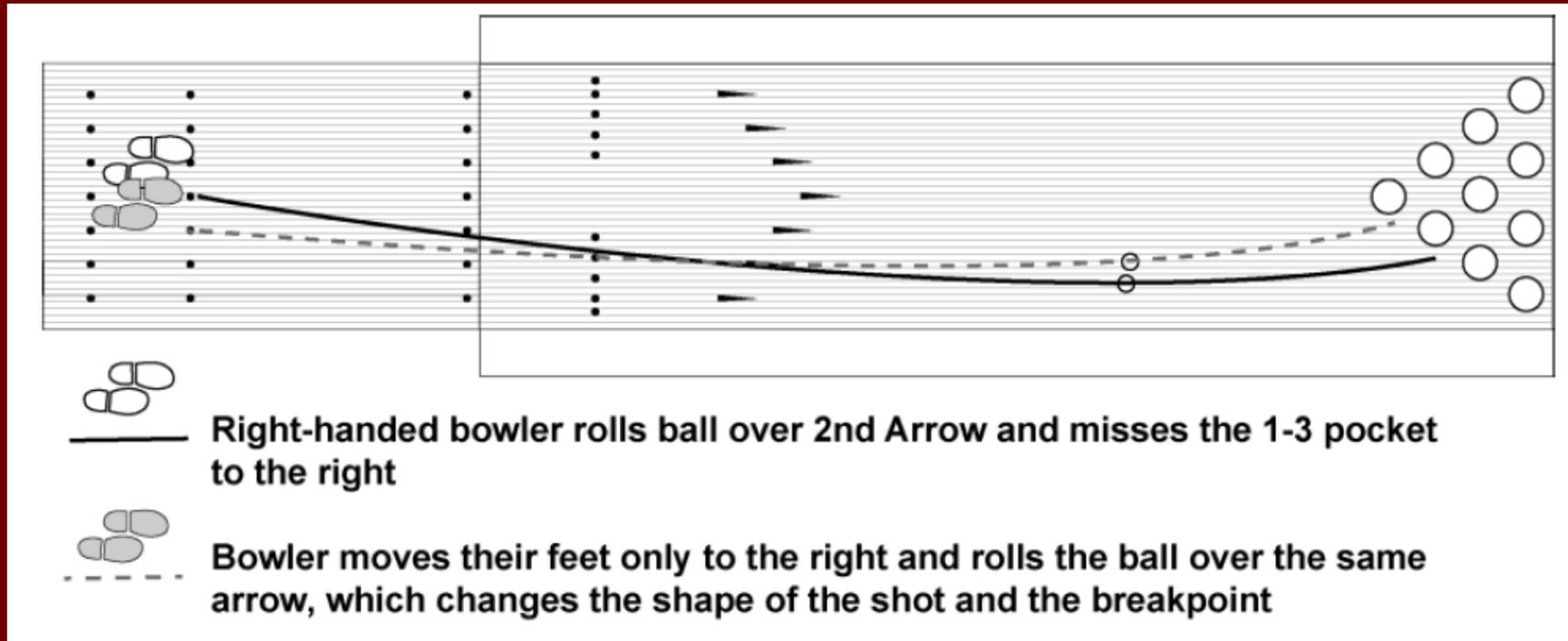


Figure 2-3

Striking Mastermind – Adjusting Part II

Parallel is moving the same amount of boards with the ball and their feet. They can get aligned to the pocket faster which enables them to keep up with the scoring pace.

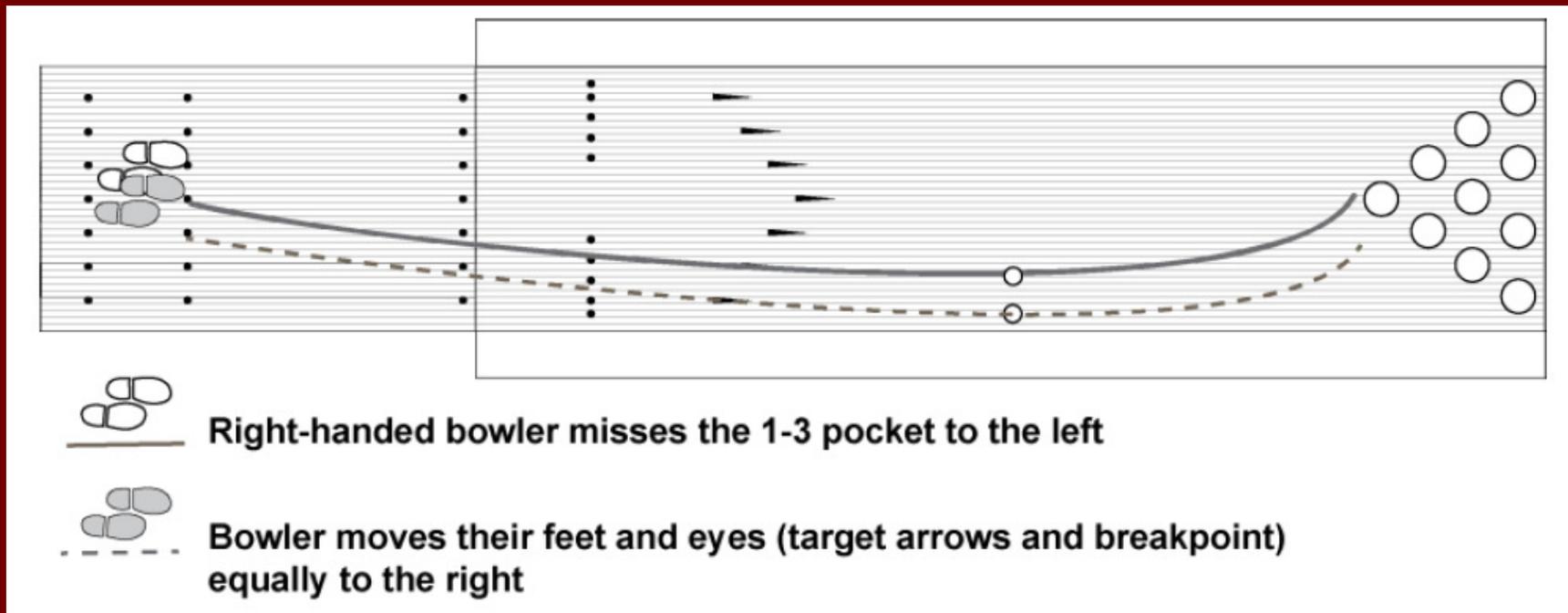


Figure 2-5

Striking Mastermind – Bowling in the US Open and Grinding the Game Out

When bowling in the US Open both amateur and pros are having difficulties of bowling well by not hitting 1-3 pocket for the right-hander and the 1-2 pocket for the left-hander. A bowler is likely struggling and cannot string together strikes, he/she needs to continue to minimize the damage by making his/her spares. Focusing on hitting the pocket will most likely leave a 8 or 9 count makeable spare. Bowlers leaving makeable spares minimize the damage when they are not carrying. A bowler that is great at winning at the US Open is Pete Weber. He has won the most titles at 5. Weber knows how to make his spares and be patient at this Major tournament. Only 8 bowlers have won multiple US Opens titles and they are all in the PBA and USBC Hall of Fame. Having multiple U.S. Open titles a bowler can put themselves in the Hall of Fame. The difficulty of the US Open is demanding because there is so much emphasis on hitting the pocket and making the spares on a demanding lane condition.

Striking Mastermind – Advanced Scoring

The figure at the bottom shows what a match in a scratch tournament might look like. What would bowler #2 have to do to win the game?

They have to get a double and seven spare to win the game.

Bowler	1	2	3	4	5	6	7	8	9	10
Bowler 1	30	60	90	120	150	178	197	206	225	234
	□ X	□ X	□ X	□ X	□ X	□ X	□ X	Ⓢ 1	□ X	Ⓢ 1
Bowler 2	20	49	69	89	119	148	168			
	9 /	□ X	□ X	9 /	□ X	□ X	□ X	9 /		

Figure 2-6

Striking Mastermind

This section is met for the serious tournament bowler to know more about the dynamics of a bowling ball and how to adjust to the demanding conditions from the PBA Regional tournament to the U.S. Open. If bowlers want to take their game to the next level by expanding their knowledge of the game.

Ten-Pin Staffer Program

Mission Statement:

A professional advice resource contributed to by bowling industry leaders specifically for bowlers who want to improve their game to the next level.

Vision Statement:

This resource is to help scratch bowlers reach a professional level.

Ten Pin Staffer Program Overview

In July, 2015, Josh Hyde Bowling devised a program to help bowlers with their game. This program is run by Josh Hyde Bowling and the people who are in the bowling industry. The program will enable scratch bowlers to reach a higher level of their knowledge of the game. The Ten Pin Staffers had to take an exam that had a possible of 150 points. They had to have a score of 130 or better to pass and become a member of the Ten Pin Staffer team. There were short answers and essay questions. These individuals are professional bowlers and leaders in the bowling industry. This program is to help bowlers if they are having problems with their game.

These individuals make up the Ten Pin Staffer team: Teresa Ross, a USBC coaching Specialist; Dennis Bergendorf, a senior writer for *Bowler's Journal International*; John Janawicz, a Kegel Technical Pattern Specialist; Steve Klompken, *Storm* Marketing Executive Director; and Jeff Taylor, a Pro Shop Operator near Milwaukee. There are also two Pro Ten Pin Staffers, Parker Bohn III, who is a PBA & USBC Hall of Famer; and Mark Sullivan, who is a PBA member and winner of *Bowling this Month* Tournament. Fritz Schlemmer, who is the amateur Ten Pin Staffer.

Meet the Team

- Teresa Ross - USBC Coaching Specialist
- Dennis Bergendorf - Senior Writer for *Bowler's Journal International*
- John Janawicz – *Keegel* Vice-President and Pattern Specialist
- Parker Bohn III - PBA & USBC Hall of Famer, 35 PBA Titlist including 3 Majors
- Mark Sullivan - PBA Member and Winner of BTM Tournament
- Fritz Schlemmer - 1999 Indiana State Singles Champion
- Steve Klompken - *Storm* Marketing Executive Director
- Jeff Taylor – Pro Shop Operator