UPDATE FROM FINA (WORLD AQUATICS) SCHOOL

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Canada Artistic Swimming/National Officials Committee// February 2023







WHAT WE WANT TO COVER TODAY

- ► Key Learnings
 - ► Figures
 - ► Height Scale
- ► Tools, Tips, and Tricks for Success
- ► Questions?



OUR THANKS TO:

- Lesley Ahara
- Kirsten Brough
- Jackie Hiscock
- Jessica Lamontagne
- ▶ Erika Lindner
- Nancy Reed
- ▶ Lianna Sottile
- ► CAS for their support







FINA Artistic Swimming Manual For Judges, Coaches & Referees



NEW YEAR, NEW RULES: WHAT DO I NEED TO KNOW?

GENERAL

- Figures will continue to be judged in 0.1 increments
- Penalties in figure events
 - Maximum of three views for video review
 - If a decision cannot be made after that, then it is awarded in the athlete's favour
 - 12 and under, it is one point deduction if incorrect after 1 attempt, then a zero after second attempt.

CONTROL

- Height sets the maximum score
 - Height should set the maximum score attainable
 - In other words, a figure that can be considered of perfect execution in terms of design, extension, stability, etc. performed at a height of 8 according to the height scale, should not score more than 8

CONTROL

- Height Scale now has definitions for:
 - Fishtail
 - Rejoin to vertical double leg for dynamic height
 - Rejoin to vertical single leg for dynamic height
 - Knight (to be added)
 - Will be the same as fishtail because it is the same amount of airborne weight

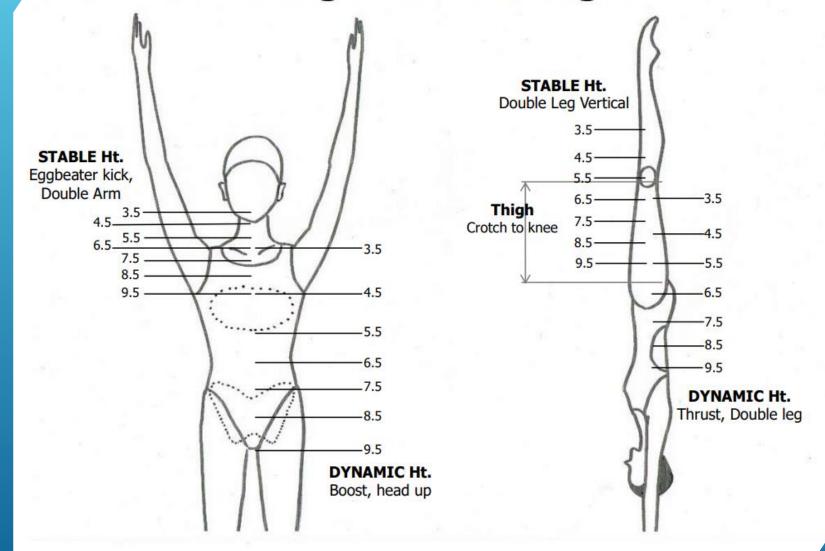
NEW

6. GUIDING SCALE FOR HEIGHT QUALITY OF PERFORMANCE TERMINOLOGY

Water Levels For:		Excellent/ Near Perfect	Very Good	Good	Competent	Satisfactory	Deficient	Weak
		9.5	8.5	7.5	6.5	5.5	4.5	3.5
	Vertical Double Leg	Upper thigh	Upper mid thigh	Low to mid- thigh	Above knee cap	Knee cap	Below knee cap	Well below knee cap (mid shin)
	Vertical Single Leg	Showing hips	Crotch level	Upper thigh	Mid-thigh	Low thigh (Well above knee cap)	Knee cap	Below knee cap
	Fishtail	Back of horizontal leg dry	Crotch level	Upper thigh	Mid-thigh	Low thigh (Well above knee cap)	Knee cap	Below knee cap
Stable Height	Ballet Leg Single	At top of thigh	Upper thigh	Mid-thigh	Low thigh (Well above knee cap)	Above knee cap	Knee cap	Below knee cap
	Ballet Leg Double	Mid-thigh	Low thigh	Above knee cap	Knee cap	Below knee cap	Well below knee cap (mid shin)	Low to mid shin
	Eggbeater Kick Double Arm	Arm pit dry	Upper bust	Showing collar bone	Showing shoulder	Mid neck	Chin	Mouth
	Eggbeater Kick Single Arm	Bust above surface	Mid bust	Arm pit dry	Upper bust	Showing collar bone	Showing shoulder	Mid neck
	Thrust, Double Leg	Lower ribs or higher	Waist	Top of pelvis	Showing crotch	Upper thigh	Mid-thigh	Above knee cap
	Thrust, Single Leg	Mid ribs	Lower ribs	Waist	Top of pelvis	Showing crotch	Upper thigh	Mid-thigh
Dynamic	Rocket Split, Airborne Split	Lower ribs or higher	Waist	Top of pelvis	Showing crotch	Upper thigh	Mid-thigh	Above knee cap
Height	*Rejoin to Vertical Double Leg	Upper thigh and higher	Upper mid- thigh	Low to mid- thigh	Above knee cap	Knee cap	Below knee cap	Well below knee cap (mid shin)
	*Rejoin to Vertical Single Leg	Showing hips and higher	Crotch level	Upper thigh	Mid-thigh	Low thigh (Well above knee cap)	Knee cap	Below knee cap
	Boost (head up)	Crotch level or higher	Mid pelvis	Top of pelvis	Waist	Lower ribs	Arm pit	Showing shoulder

^{*}Rejoin to Vertical Double Leg: The height of the rejoined to Vertical Positions for the Dynamic Height during unstable actions.
*Rejoin to Vertical Single Leg: The height of the rejoined to Vertical Single Leg for the Dynamic Height during unstable actions.

Guiding Scale for Height



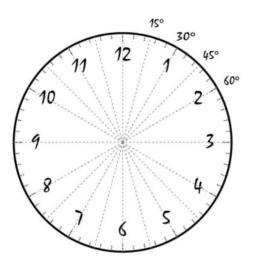
7. Guiding Scale for Split

Score range		Angle of Split	(degree)	Water level	
Excellent/ Near Perfect	9.5	180 (flat)			Crotch & legs dry
Very Good	8.5	170 - 180			Legs dry
Good	7.5	160 - 170	-		Legs almost dry
Competent	6.5	150 - 160			lower legs dry Crotch underwater
Satisfactory	5.5	130 - 140			lower legs dry Crotch underwater
Deficient	4.5	110 - 120			feet above the surface, legs under water
Weak	3.5	up to 100	> = 1		feet come out vertically
Hardly recognisable	0.1 – 2.9	scissors			feet come out vertically

DESIGN

- Deductions for design in figures are categorized into small (-0.2), medium (-0.5), and large (-1.0)
- For thrusts, a deviation up to 15 degrees from
 perpendicular/vertical alignment is now allowed —
 greater than or equal to 16 degrees is a deduction.
 - Example: Barracuda thrust

3.2.1. Visible scales of angle deviation



Apply to plumb line points of reference when evaluating vertical and horizontal alignments required

Small Deviation 1 – 15 degrees (0.2) Medium Deviation 16 – 30 degrees (0.5) Large Deviation 31 degrees or more (1.0)

Figure/ transition	Small Deviation 0.2	Medium Deviation 0.5	Large Deviation 1.0
Thrust	Legs 15 to 30 degrees from perpendicular	Legs 31 to 45 degrees from perpendicular	Legs 46 degrees or more from perpendicular
		Body rising in pike so crown of head is at the surface before unroll commences	Body rising in pike sopart of the face is dry before unroll commences
			A hinging, not an unrolling movement. Flat back during the transition



DESIGN

- NEW
- Distance from the surface before rise in a barracuda is now measured – anything 6 cm or less is not a deduction
- You will want to pay attention to the "no pause" in the descriptions – figures should flow



NEW BASIC MOVEMENTS

- To assume a straight ballet leg (BM 1B)
- To assume a surface arch (BM 14)
- To assume a bent knee surface arch (BM 15)

No more dolphin

starts

- Helicopter rotation (BM 17)
- Fouetté rotation (BM 18)

TO ASSUME A STRAIGHT BALLET LEG (BM 1B)

BM 1B To Assume a Straight Ballet Leg/A Straight Ballet Leg is assumed **Basic Movement Description** Major Desired Actions NVT Diagrams 1. From a Back Layout Position 1.1 See BP 1 Back Layout Position. Ears, shoulder one leg is raised straight to a joints, hip joints and ankles of Ballet Leg Position. extended legs at maximum horizontal alignment. 1.2 One leg is raised straight to BP 3a Surface Ballet Leg **Position** while keeping the 18.5 horizontal alignment of the horizontal leg and trunk with minimal drop of the hips. 1.3 The head and trunk remain stationary throughout.

TO ASSUME A SURFACE ARCH/A SURFACE ARCH IS ASSUMED (BM 14)

BM 14 To Assume a Surface Arch Position/A Surface Arch Position is Assumed **Basic Movement Description** NVT Major Desired Actions Diagrams 1. From a Back Layout Position 1. See BP 1 Back Layout with the head leading, the head, Position. hips and feet move along the surface of the water. Continuous uniform 2. With continuous movement the movement from the BP 1 12.0 head leaves the surface of the Back Layout Position to BP water as the back is arched more 13 Surface Arch Position. to assume a Surface Arch Hip height remains constant. Position with the hips occupying Hip joints on a horizontal the position of the head at the line. beginning of this action.

TO ASSUME A BENT KNEE SURFACE ARCH/A BENT KNEE SURFACE ARCH IS ASSUMED (BM 15)

BM 15 To Assume a Bent Knee Surface Arch Position/A Bent Knee Surface Arch is Assumed

Basic Movement Description NVT Diagrams Major Desired Actions 1. From a Back Layout Position 1. See BP 1 Back Layout with the head leading, the head, Position. hips and feet move along the surface of the water. 2.1 Continuous uniform 2. With continuous movement the head leaves the surface of the movement from the BP 1 water as the back is arched more Back Layout Position to BP 17.5 to assume a Bent Knee Surface 14d Bent Knee Surface Arch Position with the hips **Arch Position**. Hip height occupying the position of the head remains constant. Hip joints at the beginning of this action. on a horizontal line. 2.2 The toe of the bent leg must remain in contact with the inside of the extended leg while assuming the **Bent Knee Surface Arch** Position.

HELICOPTER ROTATION (BM 17)

BM 17 Helicopter Rotation			
Basic Movement Description	NVT	Diagrams	Major Desired Actions
From a Fishtail Position the horizontal leg is lifted while closing into the vertical leg to assume a Vertical Position during a descending rotation and is completed as the ankles reach the surface of the water.			1.1 See BP 8 Fishtail Position. The legs are joined while descending and rotating to assume a BP 6 Vertical Position at ankle level. This position is reached as the legs are joined and the rotation is completed. 1.2 The vertical leg maintains the vertical line throughout the rotation. 1.3 Longitudinal axis is maintained throughout the rotation. 1.4 Unless otherwise specified, the tempo of the rotation and descent is uniform and at the same speed as the root figure. 1.5 Refer to Section BM 13 Spins and Spin Allowances.

FOUETTÉ ROTATION (BM 18)

BM 18 Fouetté Rotation **Basic Movement Description** Diagrams Major Desired Actions NVT Fouetté Rotation 1.1 A rapid rotation of 180° From a Fishtail Position with the and simultaneous bending of horizontal leg leading toward the the horizontal leg to assume vertical leg a rapid 180° rotation is a BP 14c Bent Knee executed as the front leg bends to Vertical Position. assume a Bent Knee Vertical 1.2 The bent leg rapidly Position. The bent leg rapidly extends to a BP 8 Fishtail extends to a Fishtail Position. Position. 1.3 The water level remains constant throughout. 1.4 Vertical alignment of the vertical leg and trunk maintained throughout. 1.5 Stability and control evident. 1.6 Rapid uniform motion throughout. 1.7 Longitudinal axis maintained throughout the rotation.

TRAVEL

TRAVEL DEDUCTION GUIDELINES

- Maximum deduction from overall impression score range is 0.5
- Minimal travel or minimal lack of required travel (-0.1)
- Obvious travel in 1 transition, and or/ travel in several transitions (-0.3)
- Obvious travel in 2 or more transitions and or travel throughout (-0.5)

TOOLS, TIPS, AND TRICKS

TOOLS: DEDUCTION GUIDELINES FOR FIGURES

3.2.2. Design deduction guidelines for 2022-2025 Age Group Youth Figures

In addition to the deductions for angle deviations, there are other design problems that require deductions. The following table provides **some examples** of common errors that require deduction.

Figure /	Small Deviation	Medium Deviation	Large Deviation	
transition	0.2 1-15° degrees	0.5 16-30° degrees	1.0 31° degrees or more	

Flamingo Bent Knee Twist Spin

Continuous	Accelerates and	Slow rotation	Very slow rotation
spin 720°	achieves speed after		
	initiating rotation		
	Uneven rotation and drop	Dropping more than ½	Dropping to ankles byend of
	but finishing at correct	way from the initial	1st rotation and rotating at
	height	Vertical height by the	ankles
		end of the 1st rotation	

Barracuda Airborne Split Spin up 180

Back Layout Position to Back Pike Position	Head tucked in Submerged Back Pike position	Back rounded in Submerged Back Pike position	
	Toes out of the water before the thrust commences	Toes 15 – 20 cm belowsurface before rise	Toes more than 20 cm below surface before rise
Thrust	Legs 15 to 30 degrees from perpendicular	Legs 31 to 45 degrees from perpendicular	Legs 46 degrees or more from perpendicular
		Body rising in pike so crown of head is at the surface before unroll commences	Body rising in pike sopart of the face is dry before unroll commences
			A hinging, not an unrolling movement. Flat back during the transition
Vertical Position to Split Position		Not achieving the vertical prior to the split	Starting the split as the feet leave the water
Spin up 180		Erratic rises during spin	Obvious push up at the end of Spin Up





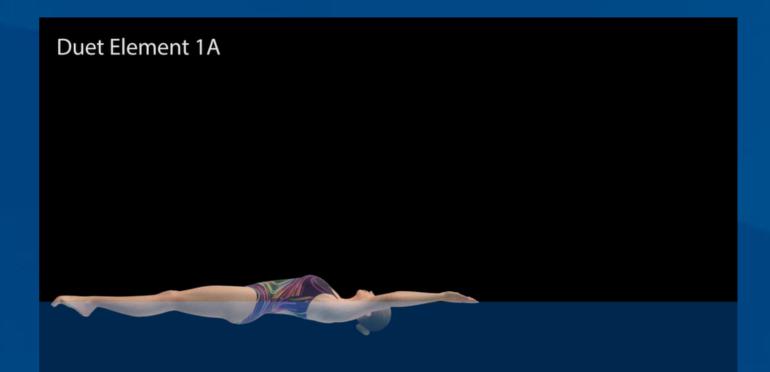






TOOLS: 3D ANIMATION VIDEOS FOR **ELEMENTS**



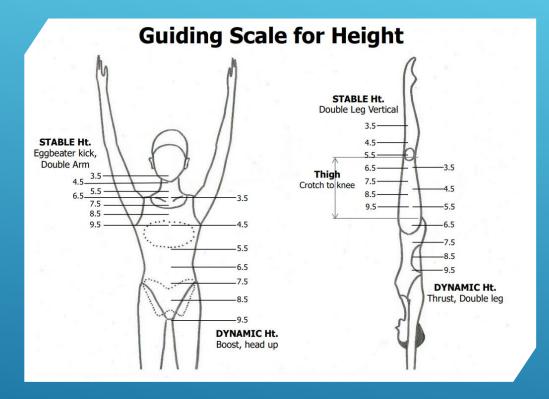


https://learning.fina.org/artistic-swimming-videoanimations/

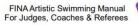
Kari McKnight and Louise Newburry, Canada Artistic Swimming, February 2023



TIPS: LAMINATE YOUR HEIGHT SCALES









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TIPS: WHERE TO GO FOR INFORMATION

FINA (World Aquatics) Rules (2022-25) https://www.fina.org/artistic-swimming/rules

The National Officials Committee has a shared Dropbox through CAS:

https://www.dropbox.com/sh/d25rie4p3zear3k/AAC8

GANcrSfRVu2PTIj87VKra?dl=0

TIPS: WHERE TO GO FOR INFORMATION



FINA (World Aquatics) Figures Manual (477 pages!) https://www.fina.org/artistic-swimming/rules

Artistic Swimming Manuals

Artistic Swimming | Figures Manual 2022 - 2025



TIPS: WATCH NEW FIGURE VIDEOS

Spain New Figure Videos:

https://rfen.es/es/posts/news/338397?fbclid=lwAR0zlxgC15lOOQSQRJ53DoKD2Lnv5WlgINmCAHFpTHlqeSY0SMgB_grSmZg

The CAS Dropbox also has many figure videos loaded on it! https://www.dropbox.com/sh/d25rie4p3zear3k/AAC8GANcrSfRVu2PTlj87VKra?dl=0

- In main folder, find 'Link to CAS VIDEO LIBRARY (Elements & Figures)'
- You will find 12U, Youth and Figures from Development Camps

TIP: SHARE YOUR LEARNINGS

- Have you created your own judging sheets?
- Do you have examples of shorthand you use?
- Have you seen any training videos?

LET'S SHARE
We are all in this together



QUESTIONS?