

# INTRODUCTORY GUIDE FOR THE APPLICATION OF DECLARED DIFFICULTY

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## **HYBRIDS**

A hybrid is defined as having a combination of two or more movements performed with lower limbs with intentional apnea (head down under hips level). Horizonal movements along the surface with 1-2 lower limb actions that have consequential apnea (rolling over, kicking, etc.) are considered transitional movements.

Video examples of Hybrid vs Transition:

https://vimeo.com/763077398/0fb6c57995

#### Hybrid difficulty COMPONENTS are considered under two areas:

1. MOVEMENTS that comprise transitions in a hybrid and are grouped in "families":

THRUSTS (T)

ROTATIONS (R)

FLEXIBILITY (F)

AIRBORNE WEIGHT (AW)

CONNECTIONS (C)

2. BONUSES that add difficulty factors specific to hybrids:

TRAVELING (TR)

PLACEMENT (PL)

SYNCHRONISATION (SY)

PATTERN CHANGES (PC)

#### Hybrid Declared Difficulty (DD) Value = MOVEMENTS (Families) + BONUSES

## HYBRID BASE MARK

Base Mark for all hybrids will be the same and has a value of 0.5.

NOTE: The Hybrid Base Mark is <u>NOT</u> added to the value of the hybrid DD, it is the value the hybrid will go to if not successful in achieving the declared difficulty (the same process as Acrobatics).



## **FAMILIES OF MOVEMENTS**

#### 1. THRUSTS (T)

This family includes variations of thrusts (as defined in AS Rulebook BM). When "Thrust" is stated it means two legs, otherwise one leg is stated.

- A Thrust with flexibility (T4, T6 and T8) must exhibit flexibility at maximum height like Airborne Split Position or Vertical to Knight. A thrust with Airborne Split Position or a split variant must show body alignment under hips, as described in BP. Body alignment means lower back arched, with hips, shoulders, and head on a vertical line. Split variants may not exhibit bent front legs, and only back legs that bend downward (not inward).
- A Thrust with flexibility (T4) or a twirl (T4, T5) may have any ending including a crash.
- In the case that a thrust is performed that exhibits actions from different levels – declare the most difficult movement. For example, if a Thrust with Flexibility continued by catching (clearly stopping – stable height demonstrated) in a Vertical Position above the knees is performed, declare a T9.
- Regarding Thrust Level 9: Once the "clearly stopping stable height demonstrated" in VP has occurred any difficulty movement can then be performed and be declared if applicable as per the rules. For example: T9 followed by R7, or T9 followed by AW6, etc.
- Video examples of Thrusts Family: https://vimeo.com/642471073/716a29df4b

#### a) Level 1

Thrust with crashing on the surface (means "not completed" thrust: From a Submerged Back Pike Position, a vertical upward movement of the legs and hips is rapidly executed as the body unrolls to assume a Vertical Position and continues by "falling" on the surface)

#### b) Level 2

Thrust with one leg: Thrust with the Bent Knee Vertical Position or Thrust in a Fishtail Position

#### c) Level 3

Thrust with one leg followed by rotation of Spin 360°

Thrust and vertical descent (may be followed by leg movements while descending)

#### d) Level 4

Thrust with one leg followed by rotation of Spin 720° or Twirl 180°

Thrust with flexibility



#### e) Level 5

Thrust followed by rotation of Spin 360° or Twirl 180° (During rotation, leg movements can be performed close to the vertical position).

#### f) Level 6

Thrust with flexibility followed by rotation of Spin 360°

#### g) Level 7

Thrust with rotation of Spin 720° and over (Thrust continued by Spin or Continuous Spin)

#### h) Level 8

Thrust with flexibility followed by rotation of Spin 720° and over

#### i) Level 9

Thrust continued by catching (clearly stopping – stable height demonstrated) in a VP above the knees or higher.

#### 2. ROTATIONS (R)

This family includes all types of rotations: Twists, Spins, Twirls (as defined in AS Rulebook BM) and swirls (rotation performed in a pike position or other positions where body is not aligned with its vertical axis).

- For descending spins in <u>free hybrids</u>, the definition of degrees is by the submersion of the toes, OR when the rotation has come to a complete stop.
   Please note this is different than for Figures or Technical Required Elements (see BM 13).
- For ascending spins in <u>free hybrids</u>, the definition of degrees begins when the toes break the water's surface, OR when the rotation begins. Please note this is different than for Figures or Technical Required Elements (see BM 13).
- Spin and Twist allowances (BM 12 and 13) <u>do not apply</u> to Rotation declarations in <u>Free Hybrids</u>. Athletes must fully complete rotations as declared on the Coach Card. For example, if an R3 is declared (Spin descending 360°-720°), then the Technical Controllers will be watching for completion of at least a full 360°.
- Various modifications of leg positions during rotations are allowed.
- Rotations with one leg includes Bent Knee Vertical Position, Fishtail, Crane, Knight, and other position options.
- Rotations with two legs includes Vertical Position "VP", Fishtail close to vertical, Arched VP and other positions where 2 legs are clearly visible close to the vertical line.
- Joining/opening/bending/extending movements from Bent Knee VP/Fishtail to VP or VP to Bent Knee VP/Fishtail is considered in all "1 leg only" rotation classifications.



- "Unbalanced 1 leg twists" is considered in all "1 leg only" rotation classifications.
- A Combined Spin and a Reverse Combined Spin will be counted only in the
  case of an equal number of descending and ascending or ascending and
  descending rotations with no stop that start and finish at the same height
  (for example if toes breaking the surface is beginning of spin, then toes
  submerging must be the end).
- A "Two-Direction" rotation (Spin or Twist) means a rotation in one direction, followed without a pause by an equal rotation in the opposite direction. For example:
  - Two-Direction Twist 360° = a rotation of 180° in one direction followed without a pause by a rotation of 180° in the opposite direction.
  - Two-Direction Twist 720° = a 360° rotation in one direction followed without a pause by a rotation of 360° in the opposite direction.
  - Two-Direction Combined or Reverse Combined Spin 720° = a descending or ascending rotation of 720° followed without a pause by a descending or ascending rotation of 720° in the opposite direction.
- If there are several rotations in a hybrid, it is recommended to separate them from each other by other movements (unless it is a Combined Spin). For example If an R3 and R5 please put extra movements between them.
- Declared spins that drop and spin at the ankles will be flagged by Technical Controllers. For example – if an R5 (spin descending more than 1440°) is declared and the athlete drops to the ankles after 2 rotations, and spins 720° at the ankles this is not a spin 1440° and the hybrid will go to Base Mark.
- Video examples of Rotations Family: https://vimeo.com/641650538/38beefa2fc
- Rotations by Technique: <a href="https://vimeo.com/653441032/6659676c65">https://vimeo.com/653441032/6659676c65</a>
  - a) Level 1 includes rotations with one or two legs:

Swirl 180°-360°

Turning 180°-360° while doing other non-sustained or "up-down" actions such as:

- VP to Split repeating while rotating
- Fishtail to Pike repeating while rotating
- · Bent Knee to Tuck while rotating
- Etc...



#### b) Level 2 includes rotations with one or two legs:

Swirl 720°-1080°

Spin descending 180°

Twist or Twirl 180° with 1 leg only

#### c) Level 3 includes rotations with one or two legs:

Swirl 1440°

Spin ascending 180°-360°

Spin descending 360°-720°

Twist or Twirl 180° with 2 legs

Twist 360° with 1 leg only

#### d) Level 4 includes rotations with one or two legs:

Spin ascending 720°-1080°

Spin descending 1080°-1440°

Twist 360° with 2 legs

#### e) Level 5 includes rotations with one or two legs:

Twist 720° with 1 leg

Spin ascending 1440° with 1 leg

Spin descending more than 1440° with 2 legs

Twist opening 360° Vertical Position to Split

Twirl 360° with 2 legs

Combined Spin 360°-720° with 1 leg

Reverse Combined Spin 360°-720° with 1 leg

#### f) Level 6 includes rotations with one or two legs:

Combined Spin 360° with 2 legs

Reverse Combined Spin 360° with 2 legs

Two-Direction Combined or Reverse Combined Spin 360°-720° with 1 leg

Spin ascending 1440° with 2 legs

Twist 720° with 2 legs

Twist Closing 360° from Split to Vertical Position



#### g) Level 7 includes rotations with two legs only:

Combined Spin 720°

Reverse Combined Spin 720°

Two-Direction Combined or Reverse Combined Spin 360°

Twist 1080°

Unbalanced 360° Twist

Two-Direction Twist 360°

## h) Level 8 includes rotations with two legs only:

Combined Spin 1080°

Reverse Combined Spin 1080°

Two-Direction Combined or Reverse Combined Spin 720°

Twist 1440°

Unbalanced 720° Twist

Two-Direction Twist 720°

#### i) Level 9 includes rotations with two legs only:

Combined Spin 1440°

Reverse Combined Spin 1440°

Two-Direction Combined or Reverse Combined Spin 1080°

Unbalanced 1080° Twist

#### 3. FLEXIBILITY (F)

This family includes all types of flexibility movements that require an extreme range of suppleness (bring a joint to its maximum range of motion), such as Walkouts, Nova lift, Aurora open, Knight and Split.

- All positions should be shown with maximum strength in legs and a body position that demonstrates the flexibility of the athletes.
- The duration of execution should be sufficient to clearly identify the difficulty by the technical controllers.
- Video examples of Flexibility Family: <a href="https://vimeo.com/641660983/030337b7a6">https://vimeo.com/641660983/030337b7a6</a>

#### a) Level 1

Rapid split by one leg from any position (such as Pike, Tub, Tuck, Inverted Tuck, Bent Knee VP, Fishtail, VP, etc.



#### b) Level 2

Clearly demonstrated split (held at least 1-2 seconds)

Walkout Front

Back Layout to Surface Arch or Bent Knee Surface Arch

#### c) Level 3

Ariana rotation or split variants at the surface with a demonstration of at least 2 different splits (Right, Left, Middle)

Split to Split through Vertical Position (changing legs)

#### d) Level 4

Front Layout to Surface Bent Knee Arch Position or a Split (Example – Swordfish like movement)

From Surface Arch Position to Knight or Split

Bent Knee Surface Arch to Bent Knee VP

#### e) Level 5

Knights: combinations of Knight positions (demonstration of at least 2 Knight positions)

Knight to Fishtail (through Vertical Position)

Knight to Vertical Position

Sustained Knight Position (held at least 1-2 seconds)

Bent Knee Surface Arch to Vertical Position

#### f) Level 6

Surface Arch to Vertical Position

#### 4. AIRBORNE WEIGHT (AW)

This family includes movements that require an amount of the body out of the water (single or double legs) and reflect the difficulty of maintaining balanced and unbalanced airborne weight.

- When "sustained height" is stated, it means airborne weight lasting equal or more than 3 seconds. The duration of execution should be sufficient to clearly identify the difficulty by the technical controllers.
- Please take note of General Principle d) as Airborne Weight may not be declared when occurring simultaneously with a rotation.
- Video examples of Airborne Weight Family: https://vimeo.com/642431079/aff60a114f



#### a) Level 1

Vertical descent in Bent Knee Vertical Position or Vertical descent from Fishtail join to VP (not as part of a Thrust or a Spin)

Front Pike Position to Bent Knee VP or Fishtail

#### b) Level 2

Vertical descent in Vertical Position (not as part of a Thrust or a Spin) or descending VP performing isolated movements

Front Pike to Vertical Position (porpoise action)

#### c) Level 3

Vertical ascent with one or two legs (not as part of an ascending spin)

Ascending Vertical Position performing isolated movements (one leg stays in a fixed position while the other performs movements with body in vertical alignment with fixed leg)

#### d) Level 4

Sustained height with one leg (Bent Knee Vertical Position or Fishtail) or combination of one and two legs, lasting equal or more than 3 seconds

#### e) Level 5

Isolated movements performed in stable Fishtail Position and piked body position (legs over surface, 30 to 60° from vertical) lasting equal or more than 3 seconds.

#### f) Level 6

Sustained height in Vertical Position lasting equal or more than 3 seconds

#### g) Level 7

Sustained height shown at least 3 seconds in Vertical Position performed in an unbalanced position.

#### 5. CONNECTIONS (C)

This family includes movements when swimmers join or link together their legs creating a connected action.

- The swimmers must be touching in some manner during the performance of the connection.
- As per General Principle b) "if a Connections (C) movement is repeated during a hybrid it may be counted only two times taking always the highest values". A connection is declared once per connection (as per table) - it does not matter how many times the positions are changed.
- Connected Actions in Teams (Connections of 4-8 athletes):
  - This means groupings of 4-8 athletes are connected for example
     2 lines or a circle of 4 athletes, or 1 line or circle of 8 athletes





- For these connected actions of 4-8 athletes 0.1 will be added to the declared connection
- Connected actions for groupings of 4-8 athletes will have the codes C1+, C2+, C3+, C4+, C5+ and C6+
- For example, if a grouping of 4 athletes in a line perform a one leg side connection +O.1 will be added to the connection value, with the code C3+, and a value of O.45.
- Video examples of Connections Family: https://vimeo.com/641668503/d7f550cda4

#### a) Level 1

Pike Position at the surface of the water (connections on the surface of the water without lifting the feet from the water)

#### b) Level 2

One leg face-to-face connection

When swimmers are connected with one leg facing each other in any vertical position.

#### c) Level 3

One-leg back or side connection

When swimmers are connected with one leg back or to side of each other in any vertical position.

#### d) Level 4

Two-leg connection

When swimmers are connected with two legs facing, back or side to each other in any vertical position.

#### e) Level 5

Rotation vertical connection with one leg

When swimmers are connected with one leg facing, back or side to each other in any vertical position while performing a rotation of at least 180° at maximum height.

#### f) Level 6

Rotation vertical connection with two legs

When swimmers are connected with two legs facing, back or side to each other in any vertical position while performing a rotation of at least 180° at maximum height.



## **BONUSES**

There are 4 bonuses available for added features in a free hybrid. Please note that not all bonuses are applicable to all disciplines and bonuses are <u>NOT</u> applicable to Technical Required Elements:

Bonus	Allowance per hybrid:	Solo	Duet	Team
Traveling	Once per hybrid	✓	✓	✓
Placement	For each hybrid in the last 20 seconds	✓	✓	✓
Synchronisation	Team only – Part (2x) or Full (1x)			✓
Pattern Change	For each pattern change			✓

#### 1. TRAVELING (TR)

The Traveling bonus may be declared only once per hybrid in solo, duet, or team for movement of all swimmers of 1.0m or more during the hybrid. If travel occurs only at the entry (pull-down, etc.) or exit of the hybrid (walkout, torpedo/propellor, etc.) this does not count.

If the Hybrid starts at one point in the pool and finishes at another point in the pool, having covered 1.0m or more, then a traveling bonus will be awarded.

Any pattern changes taking place during the hybrid are not considered as traveling (see Bonus 4. Pattern Change).

#### 2. PLACEMENT (PL)

The placement bonus may be applied for each hybrid performed during the last 20 seconds of the routine in solo, duet or team.

The hybrid must begin within the last 20 seconds of the routine. For example, if an athlete's solo routine is 2:18 a hybrid can begin anytime as of 1:58 to earn the placement bonus.

#### 3. SYNCHRONISATION (SY)

This bonus is applied for Teams only (including Free Hybrids in Tech Team). Synchronisation of part or full hybrid means that all athletes perform the same movements at the same time.

Equal movements (same legs or symmetric movement) in different directions (facing a different way) are considered synchronized movements.

Example 1: Left Bent Knee VP with all athletes facing the same direction – Half the athletes lean right, half the athletes lean left – this is considered synchronized.

Example 2: A line of 4 athletes is facing one direction, with a line of 4 other athletes beside them facing in the exact opposite direction. The athletes are doing the same actions with the same legs - this is considered synchronized.

Video examples: https://vimeo.com/764109370/5ef8710f29



#### Part Synchronisation (SY-P or 2SY-P)

This bonus is awarded for a fully synchronized part of a hybrid that consists of at least 7 or more movements. The bonus can be added not more than 2 times per hybrid.

- Example of SY-P: A team hybrid begins with 10 fully synchronized movements by all 8 athletes together, then the athletes do a 2-2-2-2 cadence action to end the hybrid. You can declare an "SY-P" bonus because the first part of the hybrid was synchronized and met the minimum movement requirement.
- Example of 2SY-P: A team hybrid begins with 8 fully synchronized movements by all 8 athletes together, then there is choreography with 4 athletes doing a set of movements, and the other 4 doing different movements, then the team of 8 finishes the hybrid with 10 fully synchronized movements. You can declare "2SY-P" bonus because the first and last part of the hybrid was synchronized and met minimum movement requirement.

#### Full Synchronisation (SY-F)

This bonus is awarded for a fully synchronized hybrid (a maximum of 3 asynchronous movements is allowed). The bonus is only awarded for hybrids with 7 or more movements.

#### 4. PATTERN CHANGES (PC)

This bonus is applied for Teams only for changes of formations made by the spatial relationship between members of a team.

Each pattern change in a hybrid is counted. For example if a hybrid has 3 pattern changes the code would be 3PC in the bonus section of the Coach Card.

NOTE: Traveling of all athletes in the same direction while maintaining the pattern is not a pattern change - this is Traveling (see Bonus 1.)

#### **HYBRID DIFFICULTY TABLE:**

- Please see the end of the guide for printable Hybrid Difficulty Table (2 pages).
- Important: Most up-to-date version is June 12, 2023





# GENERAL PRINCIPLES FOR DECLARING DIFFICULTY ON THE COACH CARD

- a) When Vertical Position (VP) is indicated it includes variants of 2 legs close to vertical (legs can be up to 45° off from vertical)
- b) When a Flexibility (F), Airborne Weight (AW) or Connections (C) movement is repeated during a hybrid it may be counted only two times (2x) always taking the highest values. For example: If there are three flexibility movements performed; two (2) of Level 1 and one (1) of Level 3, the value declared should be 1x Level 1 and 1x Level 3.
- c) Rotation (R) and Thrust (T) movements in levels 1-4 may be counted only two times (2x) per hybrid always taking the highest values. Each Rotation (R) and Thrust (T) movement of levels 5-9 adds its value regardless of the number of repetitions.
- d) When two movements from different families in the difficulty table occur simultaneously then you may only declare one.

#### Examples:

- If an Airborne Weight (AW) movement and a Rotation (R) is occurring simultaneously for example a Front Pike to VP (AW2) is executed while rotating 360°(R1), then you may only declare one either the AW2 or the R1.
- If a Flexibility (F) movement and a Rotation (R) is occurring simultaneously for example a Bent Knee Surface Arch to VP (F5) is executed while twisting or twirling 180° (R2) then you may only declare one either the F5 or the R2.
- If an Airborne Weight (AW) movement and a Connection (C) is occurring simultaneously for example a Vertical Ascent (AW3) is executed with a One leg back connection (C3) then you may only declare one either the AW3 or the C3.
- e) Regarding bonus repetitions during a free hybrid:
  - · Traveling is counted once per hybrid
  - Placement is counted for each hybrid in the last 20 seconds
  - Synchronisation is counted once per hybrid if full synchronisation (SY-F) and max twice per hybrid if part synchronisation (SY-P or 2SY-P)
  - Each pattern change in a hybrid is counted
- f) In teams or duet: when a hybrid movement or bonused action is not performed by all team/duet members its value will be factored by \*0.5 (half of swimmers included), or by \*0.3 (less than half of swimmers included). This principle applies in pair actions where just one swimmer is performing an action while the other performs surface accompaniment (whether connected or not).

When a hybrid movement (those with 2x maximums) has a factor applied of 0.5 (half swimmers) or 0.3 (less than half of swimmers) a coach may declare that movement a maximum of 4x when factored.

For example in a team – If 4 swimmers do R3 (R3\*0.5), then the other 4 swimmers do R3 (R3\*0.5), then this could be repeated again for a total of four (4) R3\*0.5 because this is the same as 2 "whole" R3 declarations and respects the maximum limit.

g) When a cadence is performed you just declare the full code once on the Coach Card. Difficulty Guide General Principle f) does not apply (factoring). Meaning – when the whole team does the same cadence movement sequentially/consecutively (one after the other – 1 at a time, 2 at time, 4/4/2, etc.), you just put the difficulty code once. For example, if all 8 athletes on a team do an R3 (spin descending 360°) one at a time – just declare R3 once on the Coach Card.

# INTRODUCTORY GUIDE FOR THE APPLICATION OF DECLARED DIFFICULTY





- h) In Thrust Level 9 (Thrust continued by catching (clearly stopping) in a Vertical Position above the knees or higher), we use the knees as a reference point for verification of accomplishing the movement. Knees as a reference point for difficulty verification will also be applied to other movements as follows with ascending or descending actions (please refer to AS Manual Height charts):
  - For a Thrust and vertical descent
    - If a descent is executed from maximum height until below the knee (4.5 stable height) and then a crash occurs, this still applies as a T3.
  - For Vertical descent in Bent Knee VP (AW1), Vertical descent (AW2)
    - o If a descent is executed from a high VP (9.5–8.5) until below the knee (4.5) and then a crash occurs, then an AW1 or AW2 still applies.
  - For Vertical ascent with 1 or 2 legs (AW3)
    - Vertical ascent must not bend at the knees before reaching above the knees (6.5). Once above knees other movements can occur.
- i) When "Unbalanced" is stated it means both legs, from knees to feet, in the same direction: forwards, backwards or sideways. Body position arched, piked, or tilted.

If one leg bends while the other leg is unbalanced and the swimmer's center of gravity out of the vertical line is compensated by knee bending that keeps the swimmer in a stable position – this does not qualify as unbalanced.

#### **ACROBATICS**

For acrobatics difficulty please refer to the Acrobatics Catalogue.

This acrobatics information is needed to complete a routine's declared difficulty on the Coach Card for Duet and Team routines.

https://www.worldaquatics.com/artistic-swimming/rules





# HOW DO ALL OF THESE DIFFICULTY COMPONENTS GO INTO A DECLARED DIFFICULTY CARD (COACH CARD)?

Now that we have introduced and explained declaring hybrid difficulty, and you have familiarized yourself with the acrobatics catalogue, we can provide an example of the declared difficulty card, or what we are calling in Artistic Swimming the "Coach Card".

The Coach Card is where the declared difficulty for a routine is detailed –Technical Required Elements, Free Hybrids and Acrobatics. Transition parts will also be declared on the coach card (Time and Part column only) to assist with following the order of performance. Please find this template in full size as an appendix at the end of the document after the difficulty tables.

Member Fed	deration:												
Competition	n:												
		0	PRELIMS		0	FINALS							
Event:		0	Women Solo Te	ch (	0	Men Solo Tech	٥	Wom	en Duet Tech	□ Mixed Duet Tech			
Lvent.		٥	Women Solo Fre	e [	0	Men Solo Free	٥	Wom	en Duet Free	□ Mixed Duet Free			
		0	Mixed Team Tec	h [	0	Mixed Team Free	0	Acrob	patic	٥	Combo	•	
Theme:													
Name of cor	mpetitor(s):												
			ELEME	NTSI	N	ORDER OF PERFO	RM	ANCE					
TIME	PART	EL	BASE MARK	DEC	LA	RED DIFFICULTY			BONUS			DD	Т
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# IMPORTANT - REGARDING DECLARED DIFFICULTY MOVEMENTS / COACH CARD:

It is very important that athletes perform movements as declared on the Coach Card AND in the order in which they are declared – otherwise a deduction will occur. We strongly advise "Do what you declare!"

If the coach has declared a movement or bonus on the Coach Card and an athlete does not perform it at all (it is omitted), or does not perform it in conformance to what is declared on the Coach Card (movement is different or in wrong order than declared) then the following shall occur:

#### For a Free Hybrid:

- Only the Base Mark (value of 0.5) will be applied
- For example, a routine hybrid is declared to have:
  - Thrust L3 (T3), Airborne Weight L3 (AW3), Rotation L4 (R4), and a traveling bonus (TR)
  - However, an athlete does not perform their R4 (for example a spin descending 1080°-1440°) and instead does a R3 (spin descending 360°-720°)
  - The routine will have this hybrid put to Base Mark (value of 0.5). The value of T3+AW3+R4 and the traveling bonus will not be added.
  - Please note in duet or team if ONE athlete does not perform movement as declared the deduction will apply
- The hybrid declaration must be in the exact order that it appears in the hybrid chronologically – as above – First a T3, then AW3, then R4 occurs. IF this is incorrectly ordered on Coach Card vs what is done in the water, the deduction will apply.
- Please note when declaring Bonuses, it is asked that they are declared in order as per the Difficulty Table, considering first TR, then PL, then SY, then PC.

#### For a Technical Required Element:

- In technical routines, a Technical Required Element (TRE) will be declared as TRE1a or TRE1b, TRE2a or TRE2b, TRE3a or TRE3b, TRE4a or TRE4b, and TRE5a or TRE5b (note: in disciplines where there is only one option for an element no letter is included when declared on the Coach Card for example "TRE3")
- Required Elements can be performed in any order however, athletes must perform the Technical Required Elements in the order as declared on the Coach Card or a penalty will be applied as per the rulebook.
- Please also note that additional movements can be added immediately before and after (breath to breath) Required Elements #1-5. Those movements will not add any extra difficulty nor will be considered as additional hybrids and therefore are not to be added to the Coach Card.

#### For an Acrobatic movements (Teams and Duets):

- Acrobatic codes should be added to the Coach Card as per the Acrobatic Catalogue
- A Base Mark will be applied to acrobatics not performed in conformance to what is declared on the Coach Card.
- Please refer to the Acrobatic Catalogue for Acrobatics Base Marks



# **COACH CARD LEGEND:**

#### **Acrobatics Base Mark:**

Group A	ACRO-A	<b>FAbtbbb</b>
Group B	ACRO-B	For Acrobatics, please enter the acrobatic code in the "declared
Group C	ACRO-C	difficulty" column as per the
Group P	ACRO-P	Acrobatics Catalogue.
Pair Acro	Acro-Pair	Aciobatics Catalogue.

<sup>\*\*</sup>Please refer to the Acrobatics Catalogue for Acrobatic codes and Acro Base Marks.

#### **Hybrid Base Mark:**

Hybrid Base Mark is fixed at 0.5. Important: the Hybrid Base Mark is <u>NOT</u> added to the value of the hybrid DD, it is the value the hybrid will go to if not successful in achieving the declared difficulty. "Hybrid" should be indicated in the Base Mark column on the Coach Card.

#### **Hybrid Families and Bonuses:**

Families (groups):		Family + Level Codes:	
Thrusts	Т	Т1-Т9	
Rotations	R	R1-R9	
Flexibility	F	F1-F6	
Airborne Weight	AW	AW1-AW7	
Connections	_	2-3 athletes: C1-C6	
Connections	С	4-8 athletes: C1+-C6+	

Bonuses:	Bonus Codes:	
Traveling	TR	TR
Placement	PL	PL
Synchronisation	SY	SY-P, 2SY-P or SY-F
Pattern Change	PC	PC

#### **Technical Required Elements:**

Element 1	Element 2	Element 3	Element 4	Element 5
TRE1a	TRE2a	TRE3a	TRE4a	TRE5a
TRE1b	TRE2b	TRE3b	TRE4b	TRE5b

<sup>\*</sup>Note: in disciplines where there is only one option for an element, no letter is included – for example "TRE3"





# EXAMPLE OF HOW TO FILL OUT THE COACH CARD (TECH ROUTINE):



COACH CARD

In force as from 8 June 2023

#### Please fill in with type or write in capital letters!

Member Federation:	Federation ABC							
Competition:	World Cup #1							
	□ PRELIMS	finals						
Event:	□ Women Solo Tech	□ Men Solo Tech 🗹 Womer	Duet Tech					
Event.	□ Women Solo Free	□ Men Solo Free □ Women	Duet Free					
	□ Mixed Team Tech	□ Mixed Team Free □ Acroba	tic Combo					
Theme:	The Nutcracker							
Name of competitor(s):	e of competitor(s): Duet Name A, Duet Name B, Duet Reserve Name							

#### ELEMENTS IN ORDER OF PERFORMANCE

TIME	PART	EL	BASE MARK	DECLARED DIFFICULTY	BONUS	DD	тс
0:08-0:11	ACRO	1	Acro-Pair	L!f		0.8	
0:12-0:20	TRANS						
0:21-0:30	TRE	2		TRE4a		3.2	
0:31-0:38	TRANS						
0:39-0:49	TRE	3		TRE1a		3.0	
0:50-0:57	TRANS						
0:58-1:10	HYBRID	4	Hybrid	F1 F3 AW4 AW6 R5 R6 R3 R3	TR	3.55	
1:11-1:19	TRANS						
1:20-1:25	TRE	5		TRE2b		2.4	
1:26-1:31	TRANS						
1:32-1:40	TRE	6		TRE3a		2.9	
1:41-1:45	TRANS						
1:46-1:51	TRE	7		TRE5b		2.1	
1:52-1:59	TRANS						
2:00-2:18	HYBRID	8	Hybrid	AW3 AW6 R4 F5 F5 R3	TR PL	2.75	
2:18-2:20	TRANS						

Date:June 8, 2023	Signature: ABC
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Member Federation: \_\_Federation ABC\_





# EXAMPLE OF HOW TO FILL OUT THE COACH CARD (FREE ROUTINE):



COACH CARD

In force as from 8 June 2023

#### Please fill in with type or write in capital letters!

Member Federation:	Federation ABC							
Competition:	World Cup #1							
	□ PRELIMS	finals						
Event:	□ Women Solo Tech	□ Men Solo Tech	□ Women Duet Tech	□ Mixed Duet Tech				
Event.	□ Women Solo Free	□ Men Solo Free	□ Women Duet Free	□ Mixed Duet Free				
	□ Mixed Team Tech	Mixed Team Free	□ Acrobatic	□ Combo				
Theme:	Swan Lake							
Name of competitor(s):	Athlete Names							

#### ELEMENTS IN ORDER OF PERFORMANCE

TIME	PART	EL	BASE MARK	DECLARED DIFFICULTY	BONUS	DD	тс
0:10-0:16	HYBRID	1	Hybrid	T9 AW6 R7 R3 AW3 R7 R3	TR SY-P 1PC	4.40	
0:17-0:27	TRANS						
0:28-0:35	ACRO	2	ACRO-A	A-Sq-Back-tk-s1		1,85	
0:36-0:50	TRANS						
0:51-1:10	HYBRID	3	Hybrid	AW1AW5 R4 R5 R6 F2	TRSY-F2PC	3.70	
1:11-1:20	TRANS						
1:21-1:26	HYBRID	4	Hybrid	C3C4	SY-F	1.30	
1:27-1:37	TRANS						
1:38-1:45	TRE	5	ACRO-B	BS-St-Tw-bb		1.45	
1:46-1:55	TRANS						
1:56-2:06	TRE	6	Hybrid	F1 F1 R3 R3	SY-F	1.50	
2:07-2:10	TRANS						
2:11-2:20	TRE	7	Hybrid	AW2 AW6 R7 R3 R3 F2	TRSY-F2PC	3.70	
2:21-2:25	TRANS						
2:26-2:30	HYBRID	8	ACRO-P	PP-Knees-SP+K-bb		1.65	
2:31-2:35	TRANS						
2:36-2:42	HYBRID	9	Hybrid	F2 F4 AW5 R3 T1	TR SY-F 1PC	2.35	
2:43-2:49	TRANS						
2:50-2:59	ACRO	10	ACRO-C	CT-">P>-Side-mn/2ln-c		1.70	
3:00-3:09	TRANS						
3:10-3:27	HYBRID	11	Hybrid	AW6 R7 R3 AW3 R7 R3	TR PL SY-F 2PC	4.65	
3:28-3:30	TRANS						

Member Federation:Federation ABC					
Date:June 8, 2023	Signature:				





# DIFFICULTY CALCULATOR (EXCEL TEMPLATE TOOL)

A Difficulty Calculator designed like a Coach Card format has been developed into an Excel Template Tool and is available for coaches to use and modify to suit their needs to assist in strategizing their routine difficulty. This is a tool and resource for coaches and is not meant to be used for competition submission. Get familiar with it and make it your own, always adhering to values as per the current Hybrid Difficulty Table and Acrobatic Catalogue. Updates to the calculator will be made as needed to stay up to date with any revised values.

The user can enter movement and bonus codes to calculate the difficulty for hybrids, as well as add in Technical Required Element codes. Please refer to the "LEGEND" tab in the spreadsheet for all codes (this is important). When a code is entered the value will appear automatically in the cell below the code. Acrobatic values based on the Acrobatics Catalogue must be added manually at this point. The user can also add all values in manually if preferred.

You can find the tool on the Learning Platform here: https://learning.fina.org/coaches-education-artistic-swimming/



# **HYBRID DIFFICULTY TABLE**

In force as from 14 June 2023

<b>BASE MARK:</b> Hybrid Base Mark is fixed at 0.5 and is <u>NOT</u> added to the value of the hybrid DD, it is the value the hybrid will go to if not successful in achieving the declared difficulty (the same process as Acrobatics).					
BONUSES:	<b>Traveling (TR)</b> 1.0m or more	' Dattern Chan			
Rep/Hybrid:	Once per hybrid	Each in last 20 seconds	Team only SY-P 2x / SY-F 1x *Only for 7 or more movements*		Every PC counted
Value:	0.15	0.20	Partial: 0.1	Full: 0.5	0.3

		FAMIL	IES			
Family:	Thrusts (T)	Rotations (R)	Flexibility (F)	Airborne Weight (AW)	Connections (C)	
Rep/Hybrid:	<b>p/Hybrid:</b> L1-4 2x / L5-9 unlimited L1-4 2x / L5-9 unlimited		2x	2x	2x	
Level 1	Thrust with crashing	One or two legs:  Swirl 180°-360°  Turning 180°-360° while doing other non-sustained or "up-down" actions	Rapid split by one leg from any position (such as Pike, Tub, Tuck, Inverted Tuck, Bent Knee VP, Fishtail, VP, etc.)	Vertical descent in Bent Knee VP or Vertical descent from Fishtail join to VP Front Pike to Bent Knee VP or Fishtail	Pike Position at the surface of the water	
	0.15	0.15	0.05	0.05	0.05 / C1+ 0.15	
Level 2	Thrust with one leg  One or two legs: Swirl 720°-1080° Spin descending 180° Twist or Twirl 180° with 1 leg only		Clearly demonstrated split (held at least 1-2 seconds)  Walkout Front  Back Layout to Surface Arch or Bent Knee Surface Arch	Vertical descent in VP or descending VP performing isolated movements Front Pike to Vertical Position	One leg face-to-face connection	
	0.30	0.35	0.10	0.15	0.20 / C2+ 0.30	
Level 3	Thrust with one leg followed by rotation of Spin 360° Thrust and vertical descent	One or two legs:  Swirl 1440°  Spin ascending 180°-360°  Spin descending 360°-720°  Twist or Twirl 180° with 2 legs  Twist 360° with 1 leg only	Ariana rotation or split variants at the surface with a demonstration of at least 2 different splits (Right, Left, Middle)  Split to Split through VP (changing legs)	Vertical ascent with 1 or 2 legs Ascending VP performing isolated movements	One leg back or side connection	
	0.35	0.45	0.15	0.30	0.35 / C3+ 0.45	
Thrust with one leg followed by rotation of Spin 720° or Twirl 180°  Thrust with flexibility		followed by rotation of Spin 720° or Twirl 180° Spin descending 720°-1080° Spin descending 1080°-1440°		Sustained height with one leg or a combination of one and two legs lasting equal or more than 3 seconds	Two-legs connection	
			Bent Knee Surface Arch to Bent Knee VP			

Levels	Thrusts (T)	Rotations (R)	Flexibility (F)	Airborne Weight (AW)	Connections (C)	
Level 5	Thrust followed by rotation of Spin 360° or Twirl 180°	One or two legs: Twist 720° with 1 leg Spin ascending 1440° with 1 leg Spin descending more than 1440° with 2 legs Twist opening 360° VP to Split Twirl 360° with 2 legs Combined or Reverse Combined Spin 360°-720° with 1 leg	Knights: combinations of Knight positions (at least 2) Knight to Fishtail (through VP) Knight to VP Sustained Knight Position (held at least 1-2 seconds) Bent Knee Surface Arch to Vertical Position	Isolated movements performed in stable Fishtail Position and piked body position (legs over surface, 30-60° from vertical) lasting equal or more than 3 seconds.	Rotation vertical connection with one leg (rotation of at least 180° at maximum height)	
	0.45	0.60	0.25	0.50	0.50 / C5+ 0.60	
Level 6	One or two legs:  Combined or Reverse Combined Spin 360° with 2 legs  Thrust with flexibility followed by rotation of Spin 360°  Spin 360°  Two-Direction Combined or Reverse Combined Spin 360°-720° with 1 leg  Spin ascending 1440° with 2 legs  Twist 720° with 2 legs  Twist closing 360° from Split to VP		Surface Arch to VP	Sustained height in VP lasting equal or more than 3 seconds	Rotation vertical connection with two legs (rotation of at least 180° at maximum height)	
	0.50	0.65	0.30	0.60	0.55 / C6+ 0.65	
Level 7	Thrust with rotation of Spin 720° and over	Two legs only: Combined or Reverse Combined Spin 720° Two-Direction Combined or Reverse Combined Spin 360° Twist 1080° Unbalanced 360° Twist Two-direction Twist 360°		Sustained height shown at least 3 seconds in VP performed in an unbalanced position.		
	0.55	0.70		0.65		
Level 8	Thrust with flexibility followed by rotation of Spin 720° and over	Two legs only: Combined or Reverse Combined Spin 1080° Two-Direction Combined or Reverse Combined Spin 720° Twist 1440° Unbalanced 720° Twist Two-Direction Twist 720°				
	0.60	0.75				
Level 9	Thrust continued by catching a sustained Vertical Position	Two legs only: Combined or Reverse Combined Spin 1440° Two-Direction Combined or Reverse Combined Spin 1080° Unbalanced 1080° Twist				
	0.65	0.80				
			I	l .	I	



## Please fill in with type or write in capital letters!

Member Federation:					
Competition:					
		PRELIMS	FINALS		
Event:		Women Solo Tech	Men Solo Tech	Women Duet Tech	Mixed Duet Tech
		Women Solo Free	Men Solo Free	Women Duet Free	Mixed Duet Free
		Mixed Team Tech	Mixed Team Free	Acrobatic	Combo
Theme:					
Name of competitor(s):					
	•				

#### **ELEMENTS IN ORDER OF PERFORMANCE**

TIME	PART	EL	BASE MARK	DECLARED DIFFICULTY	BONUS	DD	тс

Member Federation:	
Date:	Signature: