

MEANINGFUL COMPETITION

PROTOCOL FOR PSO-NSO GENERAL ATHLETIC AND SYNCHRO SKILLS

LEARN TO TRAIN – 9-10 & 11-12 TRAIN TO TRAIN – 11-12 & 13-15 TRAIN TO COMPETE – JUNIOR / 16-18

2017-2018 Season

YouTube video examples:

2017-2018 Skills Land Video

If this link does not work, please copy it and paste it in the address bar of your favourite browser.

Please note:

- → The athletes in the video examples are not entirely accurate in their performance of the competencies. The objective was to show athletes at different ages and skill level.
- → Please refer to the list of competencies on the score sheet.
- → The competencies are scored as a pass or fail.

At Synchro Canada, we believe in developing athletes that are Durable by Design, and not developing athletes by chance (*Dr. Dean Kriellaars*). "Durability" is defined as "the ability to endure", which in sport and for Synchro Canada means, developing athletes that have the ability to participate, endure training, endure competition, and life. Durability training includes both MENTAL and PHYSICAL characteristics. Durability is an inclusive term, and includes training in the areas of:

- Fitness
- Physical literacy
- Motor control
- Biomechanics
- Nutrition
- Sleep, rest, recovery and regeneration
- Psychological
- Social



- Injury prevention
- Awareness and hazard detection
- And many more

Based on long-term athlete development principles:

- ✓ Suppleness
- ✓ Speed
- ✓ Skill development (before the onset of adolescent growth spurt)
- ✓ Physical literacy (before the onset of adolescent growth spurt)
- ✓ Strength (immediately after the PHV, or the onset of menarche)

are priorities to be trained and tested during the Learn to Train, Train to Train and Train to Compete stages.

The following explains the protocols for Meaningful Competition PSO-NSO General Athletic and Synchro Skills event to be completed during the 2017-2018 season.

Each province is asked to implement some form of skill events within their competition structure or via club testing. For more information on your provinces skills list and implementation, please communicate with your provincial organization.





LEARN TO TRAIN, TRAIN TO TRAIN, TRAIN TO COMPETE

 ✓ Strength ✓ Stamina ✓ Suppleness in the joints: hip flexion & extension lumbar spine flexion & extension knee extension ankle plantar flexion & dorsiflexion ✓ Strength Athlete Score sheet Yoga mat (each athlete brings their own) with an "X" in the center Black bathing suit Black bathing suit Black athletic shorts (knees must be visible) Black tank top (optional) Hair should be in a bun or in a swim cap. 	PURPOSE	DEPENDENT MEASURE	REQUIRED EQUIPMENT	
* toes nexion	✓ Speed ✓ Skill ✓ Core Strength & Stability ✓ Strength ✓ Stamina ✓ Suppleness in the joints: • hip flexion & extension • lumbar spine flexion & extension • knee extension	 Speed Skill (body position) Synchronization (to metronome) * Please see score sheet for detailed scoring	 □ Metronome set at 135 □ Dowel with measuring tape attached (note the starting measure) □ Athlete Score sheet □ Yoga mat (each athlete brings their own) with an "X" in the center □ Two Foam rollers □ Black bathing suit □ Black athletic shorts (knees must be visible) □ Black tank top (optional) 	☐ Timers ☐ Whistle ☐ Stopwatches or cellular phones ☐ Athlete score sheet ☐ Black bathing suit

Basic Protocol

- 1. Athletes must have knees and ankles exposed for land skills (as per photo)
- Athletes must be in black bathing suit and black shorts/yoga shorts (Black tank top is optional)
- 3. Athletes will have a minimum of 5 minutes for a warm-up period
- 4. Athlete will set-up on the "X" on their yoga mat in the start position. Evaluator will give a full 8 count to indicate the start of the test.
- 5. For all the skills, athletes will take 1 full set of 8 counts to setup, 2 full sets of 8 counts to hold the position, and 1 full set of 8 counts for transition.

GOAL	CANADIAN STANDARD
 Attain proper positions to get the most points possible Attain Canadian Standard for toe flexion, ankle plantarflexion and knee extension (demonstrated in photo to the right) 	All points/ competencies related to knee and foot extension are compared to the Canadian Standard

Video example:

2017-2018 Skills Video

If this link does not work, please copy it and paste it in the address bar of your favourite browser

Please note:

- → The athletes in the video examples are not entirely accurate in their performance of the competencies. The objective was to show athletes at different ages and skill level.
- > Please refer to the list of competencies on the score sheet for specific criteria's to achieve.
- → The competencies are scored as a pass or fail.





REMINDERS FOR COACHES WHEN TEACHING SKILLS

by Dr. Dean Kriellaars presentation at 2016 Synchro Canada Convention

Repetition Based Learning with Knowledge of Results.

- The human nervous system is adept at learning tasks/skills when provided with repetitions of the movement when there is "knowledge of results".
- If a child is moving down a movement or agility ladder, they know if the movement is correct by the footwork required, so with each successive pass down the ladder, they typically reduce errors in execution by knowing the results of their own performance (self-monitoring).
- With objectives and feedback, the brain can self-correct movement with repetitions.
- This creates a robust nervous system capable of dealing with variations in movement circumstances.

 Providing instructional cues can facilitate the learning process but not at the expense of repetitions to hone the nervous systems ability to generate the movement.

Confidence

Confidence is built on fun and challenging experiences mixed with successes and failures

- Lesson plans need to be designed to enhance confidence. It is insufficient just to have fun.
- The session must have a challenge that can be overcome.
- Failures need to occur for ultimate success.
 Children need a safe place to allow failures, but need as many or more successes to progress appropriate challenge.

Learning at Speed

- People learn best when the movement speed is reduced or the skill is broken down to its component parts.
- Have the participants execute movement at slower speeds, then progress the speed as execution errors reduce over repetitions.
- When speed is increased, accuracy decreases (errors increase), so time (repetitions) is needed to adjust to each new speed.

"Accuracy first – speed second"

Peer Pressure

- A single line up with children waiting and watching each other creates a situation of social inhibition of movement.
- Create shorter lines (or no lines) so that many are moving at once this creates anonymity. This also creates more repetitions.
- Create multiple stations so that "observers" are minimized.
 Ultimately, performance of movements in front of others needs to be progressed (the audience effect), but initially it can be counter-productive for learning.





Time Pressure

- Control time pressure in activities so that the participant does not "feel" rushed.
- If time pressure is present (apparent or perceived) then the ability to learn a new skill is minimized.
- Example
 - If children are lined up to use a piece of equipment, the person executing in the equipment should not feel as if they need to vacate the space for the next person especially during learning.
 Leaders should set up enough time for all participants to perform multiple repetitions of the skill without time pressure during the initial movement skill

Leaders should set up enough time for all participants to perform multiple repetitions of the skill without time pressure during the initial movement skil acquisition phase (20 to 100 repetitions).

Cueing During Movement

- When a person is learning a new task, they REQUIRE their higher brain centres to learn.
- If you prompt or cue during the movement you are diverting their attention away from learning.
- With each successive repetition the person refines their ability to perform the movement so errors in execution normally decrease over time with repetition.
- If you provide feedback of results of execution, the person can often learn the skill without cues.
- If you provide cues, provide them after execution.
- When someone has acquired the skill meaning it is **automatic** they are ready to receive instructions during movement or layer on another movement with the newly learned skill.

REMINDERS:

- → Consistency is king
- → Progression is everything
- → Time of task
- → Self-monitoring
- → Accountability





VERY IMPORTANT FOR COACHES TO UNDERSTANDING:

→ Quieting the Residual Tone

What is tone?

- TONE of a muscle is simply the combination of background activity of a muscle (there is generally some electrical activity of the muscle at "rest") and intrinsic tension of a muscle from elastic tissue (hold a piece of beef in your hands)
- This means the nervous system (motoneurones) are being activated
 - The higher brain centres
 - Apprehension performance anxiety
 - Pain
 - Spinal centres
 - Nocioception local guarding
 - Reflexes like the stretch reflex
 - Intrinsic features of muscle (viscosity)

Types of Stretches

- Static Stretching (Slow Sustained Stretching)
- Dynamic Stretching
- **Ballistic Stretching**
- Proprioceptive Neuromuscular Facilitation (PNF)
 - Contract relax

Back Bend or BRIDGE:

Bridge

Position in which the body is bent backwards in dorsal hyperextension, with support on the hands and feet.

Prerequisite for front and back walkovers.



*** Extra care to properly teach progressions is VERY important.

*** Spotting is MANDATORY when teaching the bridge to athletes until the skill is accomplished.





Back bend or Bridge

Learning progression:

- 1. Arch on floor → dynamic arch → arch rocker (picture 1)
- Prone extension
- 3. Prone extension with hands walk back
- 4. Prone extension with heels to head
- 5. Wall arch with hands high
- 6. Wall arch with elbows on
- 7. Snap down (on knees and on feet) (picture 2a & picture 2b)
- 8. Back dolphin (picture 3)
- 9. Back (supine) bridge on floor (head, shoulders and feet on ground, raise buttocks), hold 15sec, 3-5x
- 10. Back (supine) bridge on floor: hands at ears, fingertips pointing backward, hold 15sec, 3-5x
- 11. Back bend (spot) supported under back, press up into bridge, hold 5sec, 3-5x, build up to 10-15sec holds
- 12. Back bend round, hold 5sec, 3-5x, build up to 10-15sec holds
- 13. Back bend legs extended (straight)
- 14. Back bend round to straight (rocker)
- 15. Back bend walk hands back to feet
- 16. Back bend pelvis raise or lower

PICTURE 1:

· Arch on the floor

Lying prone, get into the arch position and hold this position for 10 seconds.

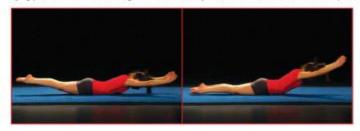
· Dynamic arch

Lying prone, get into the arch position, return to the initial position, and repeat.



· Rocker on the stomach

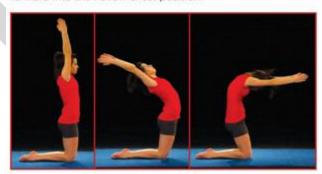
Lying prone, lift the arms and legs and rock the body forward and backwards in the arch position.



PICTURE 2a:

Snap-down on the knees

Resting on the knees with the upper body upright and the arms extended on either side of the head, move the torso backwards into an arch, return to the upright position and bring the torso forward into the hollow chest position.



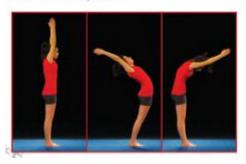




PICTURE 2a:

· Snap-down on the feet

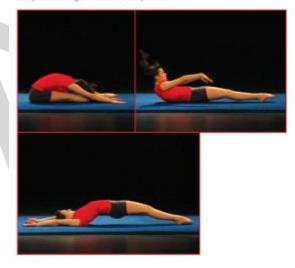
In standing straight position with the arms extended on either side of the head, move the torso backwards into an arch, return to the standing straight position and bring the torso forward into the hollow chest position.



PICTURE 3:

· Back dolphin

From the pike position with the legs extended along the floor, open the pelvis, roll down to the mat and bring the arms to either side of the head. Supporting on the feet and shoulder blades, lift the pelvis and get into the arch position.







The following information is courtesy of "Basic Techniques in Circus Arts - Handstands" by Foundation Cirque du Soleil. We would like to thanks Dr. Dean Kriellaars and Cirque du Soleil for sharing their resources with Synchro Canada. The full resource can be found on synchrocoach.ca for NCCP members.

HANDSTANDS (tripod):



Technical element description:

Balancing on the head with support on both hands.

Prerequisites

- · Body alignment on the back, lying on the ground.
- Front roll to safely roll out of a tripod handstand of balance is lost

In synchronized swimming:

A tripod headstand is an important skill in synchronized swimming to develop and master. There is a direct correlation between the ability to maintain an erect posture on land and the athlete's ability in the water. In addition, developing neck strength is very important for athletes. Strong neck musculature can help prevent the severity of injuries such as concussions.

*** <u>Safety Notice:</u> teaching the tripod to young childen (10 and under) is <u>not</u> recommended because of the risk of injury to the cervical vertebrae

- *** Extra care to properly teach progressions is VERY important.
- *** Spotting is MANDATORY when teaching this skill to athletes until the skill is accomplished.





Explanation of the Movement

- From a kneeling position, bend the arms and place the hands under the elbows, forming a triangle with the head.
- Gradually transfer the body weight onto the head, beginning with upper back. Keep the tuck position with the pelvis in posterior tilt
 until the balance is mastered. M 1
- Once the balance is controlled, the legs can be extended vertically with the feet in line with the back. M 2





Frog stand:



Learning progression:

Initiation:

- 1. Ask athlete to assume a "frog" stand. If the athlete can complete this position, they have significant strength and balance to attempt the next progression.
- . Ask the athlete to assume a tripod "tuck" position M1. A variant example of a "tuck" position: https://youtu.be/V8ywhxLT0HU
- 3. Hold the tuck position in the tripod

Developing:

1. Athlete moves to a vertical position from the "tuck" position – M2. Athlete may be close to a wall to assist if loss of balance occurs.

Acquired:

1. Athlete achieves vertical position, from a tuck position or uses a straddle lift. Slight movement while holding the position. Has the confidence, strength, coordination, and stability to move away from the wall.

Accomplished:

1. Athlete moves with confidence to assume a tripod headstand. No longer requires spotter to maintain position. Shows complete stability for the duration of the skill.

Variations:

Split: athlete assumes a split position (R / L / Center) in a tripod headstand position.

Crane: athlete assumes a crane position (R / L) in a tripod headstand position.

Bent knee position: athlete assumes a bent knee position (R / L) in a tripod headstand position.

Educationals

- Start in candlestick position. This educational helps to develop the feeling of elongating the body and stretching the pelvis. This can be done with the hands on the hips, the arms extended along the ground behind the back or behind the head.
- · Hold the tuck position in the tripod.
- Hold the legs in a split position in the tripod.
- Sequence the tuck position and the legs in a split position several times by making the butterfly movement.

Manual Aid

• Hold the participant's pelvis and make sure his head is in line with the rest of the body, in order to prevent a backwards fall.

Safety Notice: Teaching the tripod to young children is not recommended because of the risk of injury to the cervical vertebrae

Common Mistakes

- The participant cannot lift up into the tripod.
- The participant falls backwards while kicking up.
- · The participant is unstable.

Corrections and Corrective Exercises

- 1. Positioning the COM above the base of support. Beginning with the upper back and unrolling it gradually until the pelvis is properly aligned over the back.
- 2. When the legs are extended, perfectly aligning the feet over the thoracic cage.
- 3. Placing the elbows over the hands. Keeping the gaze on both hands during the tripod.





STRENGTH

*** Extra care to properly teach progressions is VERY important.

*** Spotting is MANDATORY when teaching this skill to athletes until the skill is accomplished.

V-sit Learning progression:

- 1. Hold a tub position on land, start with 5 sec, 3-4x week, add on 5sec/ week, until hold for 30sec. Concurrently train the flexibility of the pike position to ensure athletes are able to achieve a 90 deg pike position (both lying on back, and in standing position (table top position).
- 2. From a tub position on land, extend legs to a V-Sit position on land, start with 5 sec, 3-4x week, add on 5sec/ week, until hold for 30sec
- 8. Start in V-Sit position and slowly lower trunk and legs to floor in a controlled movement. Repeat 10-15x, 3-4x week.
- 4. Start in supine lying position (back layout position on land), raise the trunk to 45deg, and legs to a tub position, hold for 5-10sec, stop, return to supine position, repeat 10-15x, 3-4x week
- 5. Start in supine lying position (back layout position on land), raise the trunk to 45 degrees, and legs to 45 degrees, hold for 5-10sec, stop, return to supine position, repeat 10-15x, 3-4x week
- 6. Attempt full V-sits in a controlled movement, start with 5-10x, 3-4x week.

Push-up Learning progression:

- 1. Ensure athlete can hold a plank position for 30sec-1minute
- 2. Week 1: Try push-up on the edge of a table, about 36 inches in height. Start with 10 repetitions, 3-4x week. Lower the height of table/ bench by 6-12" each week.
- 3. Week 2: Push-ups on a table/ or bench that is 30-24" in height. Complete 10 repetitions, 3-4x week.
- 4. Week 3: Push-ups on a bench that is 24-18" in height. Complete 10 repetitions, 3-4x week
- 5. Week 4: Push-ups on a bench that is 18-12" in height. Complete 10 repetitions, 3-4x week
- 6. Week 6: Push-ups on a bench that is 12-6" in height. Complete 10 repetitions, 3-4x week. Attempt 2 sets of 10 reps, with 1 minute rest between sets.
- 7. Week 7: Push-ups on a bench that is 6" height/ or on the floor. Complete 10 repetitions, 3-4x week. Try a 2nd set of 5-10 reps, with 1 minute rest between sets.
- 8. Week 8: Push-ups on the floor. Complete 10 reps, 3-4x week. Try a 2nd set of 5-10 reps, with 1 minutes rest between sets.
- 9. Week 9: Push-ups on the floor: Complete 2 x 10 reps with 1 minute rest between sets, 3-4x week.
- 10. Week 10: Push-ups on the floor: Complete 2 x 10 reps with 1 minute rest between sets, 3-4x week. Try a 3rd set of 5-10 reps.
- 11. Week 11: Push-ups on the floor: Complete 3 x 10 reps with 1 minute rest between sets, 3-4x week.







Learn to Train (Stage 3)

9-10 Years

General Athletic & Synchro Skills





SKILLS: 9-10		Nov/ Dec	Jan/ Feb	Feb/ March	April/May
	Land: to be performed as an individual routine – video to be distributed				
BP	1. Back layout on 2 FR or 2 benches (on land)		club	club	club
BP	2. Ballet leg R/L (on land)	V	club	club	club
FLEX	3. Back Bend / Bridge OR option: Prone Back Extension	V	club	club	club
BP	4. Front layout (on land)	V	club	club	club
STRG/FLEX	5. Prone shoulder hyper flexion with dowel	\square	club	club	club
FLEX	6. Needle R/L	V	club	club	club
FLEX	7. Standing Back Pike (Barracuda Set-up)	$\overline{\mathbf{V}}$	club	club	club
FLEX	8. Ariana rotation	V	club	club	club

^{*} Toes Flexion & Ankle PF (plantarflexion) to be assessed within above skills

CORE: Level 1 – 20 sec/ exercise with no rest

SPEED: 9-10	Nov/ Dec	Jan/ Feb	Feb/ March	April/May
12.5 m Front flutter k	k ☑	club	club	club
12.5m Prope	er ☑	club	club	club

BASIC POSITION	S: 9-10 Group pic	cked prior to competition		Nov/ Dec	Jan/ Feb	Feb/ March	April/May
Group 1	Group 2	Group 3	Group 4				
Right leg split	Left leg split	Middle split	Surface arch				
Back layout	 Front layout 	 Sailboat 	Ballet leg				
Front Pike	Submerged BL double pos'n	Submerged Back pike position	Inverted tuck	Ø			
Bent knee vertical	• Fishtail	• Knight	• Vertical				

BASIC TRANSITIONS: 9-10 Optional	group picked prior to competition	Nov/ Dec Jan/ F	eb Feb/ March April/May
Compulsory Group 1	Group 2 Group 3		
✓ Ariana rotation ✓ Back layout to Ballet leg Walkout (split to knight to surfarrance arch to back layout) ✓ Front layout to front p sub. BL double pos'n	fishtail pike position		

FIGURES: 9-10	Optional group picked p	rior to competition		Nov/ Dec	Jan/ Feb	Feb/ March	April/May
Compulsory	Group 1	Group 2	Group 3				
Ballet leg single (1.6)	Kipnus	Back tuck somersault	Surface prawn (1.5)			DZ	Ŋ
Blossom	Walkover front (2.1)	Neptunus	Somersub			[V]	V

^{***} Please refer to the FINA Judges and Coaches manuals and the FINA 2017-2021 figure videos for the basic positions, transitions and figures descriptions.



GENERAL ATHLETIC and SYNCHRO SKILLS SCORE SHEET



	LEARN TO TRAIN (st	age 3) : 9-10 yrs old
START #:	ATHLETE NA	MME:AGE/YR:
Circle the deduction	ons/ score for each category. Points possible a	are noted for each event
LAND SKILLS (69 pts possible) - TOTAL SCORE		
BACK LAYOUT ON TWO FOAM ROLLERS Head (specifically ears), hips and ankles in horizontal line Body extended with neutral spine; abdominals and glutes are engaged Legs together and in full extension Total out of 3:		5 PRONE SHOULDER HYPER FLEXION WITH DOWEL > 60 cm Stick to floor 50 cm - 59 cm 4 40 cm - 49 cm 3 30 cm - 39 cm 2 20 cm - 29 cm 1 <19 cm 0 Total out of 5:
Right ballet leg Head, shoulders, horizontal leg are in contact with the floor Vertical thigh (ballet leg) maintain 90° with the horizontal line Both knees and both ankles are fully extended as per Canadian standard Total out of 3: Left ballet leg Head, shoulders, horizontal leg are in contact with the floor		Both knees and top ankle are fully extended as per Canadian standard 1 0 Hold for 2 full counts of 8 1 0 Total out of 7:
Vertical thigh (ballet leg) maintain 90° with the horizontal line Both knees and both ankles are fully extended as per Canadian standard Total out of 3: 3 BACK BEND or BRIDGE	0 0	Right Leg is at 12 o'clock 4 0 Left leg is at 6 o'clock 1 0 Both knees and top ankle are fully extended as per Canadian standard 1 0 Hold for 2 full counts of 8 1 0
Legs in full extension and together Ears aligned with shoulder in vertical alignment Upper arm in 12 o'clock position Hold for 2 full counts of 8 Total out of 4:	0 0 0 0	7 STANDING BACK PIKE POSITION (Barracuda set-up) Legs together 1 0
FRONT LAYOUT ON LAND "Canoe" position achieved with lenthened lumbar spine 1 Neutral cervical spine (no chin poking out) 1 Legs and feet together and extended as per Canadian standard 1	0 0	Knees fully extended as per Canadian standard 1 0 Stomach, chest and face touching legs 1 0 Total out of 3:
9 CORE ROUTINE: complete Level 1 - 20sec each exercise with no res 1 - Sky-Centre-Side-Centre (slow pace) for 20 sec 2 - Front Plank for 20 sec 3 - UP-UP-DOWN-DOWN (slow pace) for 20 sec 3 - UP-UP-DOWN-DOWN (slow pace) for 20 sec	t 0 0	Vertical alignment of ears, shoulders and torso Hips and shoulders square Extension of both knees and ankles as per Canadian standard Complete FLAT split Total out of 7 (for each split):
4 - Pointers (slow pace) for 20 sec 1 5 - Superman for 20 sec 1 6 - Side Plank Right for 20 sec 1 7 - Side Plank Left for 20 sec 1 8 - Side Planks Rollovers for 20 sec 1 9 - Table Top for 20 sec 1	0 0 0 0 0	ARIANA
10 - Table Top Russian Kicks (slow pace) for 20 sec 1 Total out of 10:		6 7 8 9 10

12.5	m	FR	ON	VT	FLI	IJΤ	TEI	

1111161 1-	Timer	1=	
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Timer 2 =

Average time =

12.5m PROPELLOR

Timer 1=

Timer 2 =

Average time =

- Checklist for coaches to use in training
 Flat sculling motion used with wrists bent well back 1 0
 - Upper arms stationary 1 0
 - Elbows are held at 45deg in "Y" position 1 0

- toes, knees, hips in full extension 1 0
 - shoulders full flexion 1 0
- legs stay together (side by side) for entire 12.5 m $\,$ 1 $\,$ 0

- dorsum of foot stay dry (at the surface) for entire 12.5m 1 0
 - face stays dry (at the surface) for entire 12.5m 1 0
 - anterior hips stay dry for entire 12.5m 1 0





LEARN TO TRAIN 9-10

The following skills are to be performed in a skills routine * or individual stations (as per provincial implementation).

* one skill following another with no pause in transitioning from one skill to another.

1. Back layout on 2 Foam Rollers or 2 benches (on land)

- Athletes assume a back layout position on two foam rollers; one placed under the ankles (above the heel) and one placed under the mid-point of the shoulder blades. Athlete may use her arms for assistance and stability (if needed) to assume the position.
- At the timers' signal, athlete maintains the position, with no support from the arms on the floor, for the indicated time/ counts.
- Body alignment = an imaginary line through the ears, shoulders, hips, malleolus should be as close to horizontal as possible.
- Gluts (bum) should be engaged 100%.
- Neutral cervical, thoracic and lumbar spine is maintained and the core should be tight (ribs not poking out).
- Legs and feet together, both knees are fully extended. Both ankles are fully plantar flexed and toes
 are flexed maximally.
- Arms are along the side of the trunk parallel to the floor and engaged.
- Balanced control for 2 full count of 8.

2. Ballet Leg R/L (on land)

- Remove the foam rollers and place to the side.
- Athletes return to back layout bent knee position on the ground.
- Assume a Ballet Leg position on the mat. Arms are extended at a 30 degree angle from the trunk on the floor.
- Body alignment = an imaginary line through the ears, shoulders, hips, and the horizontal malleolus should be as close to horizontal as possible.
- The vertical thigh (ballet leg) maintains 90° with the horizontal line.
- The horizontal leg faces the ceiling (no roll-out).
- Both knees are fully extended. Both ankles are fully plantar flexed and toes are flexed maximally.
- Hold for 2 full 8 counts.

3. Back Bend or Bridge Position

- Athletes start position lying on back, heels to bum, legs together and hands prepared beside the head under the shoulders.
- Push up to bridge position for 2 full 8 counts keeping feet and hands in starting position.
- Feet and legs must be together and extended.
- Cervical spine must remain neutral (natural curve of the spine), with the head hanging straight down (no
 "turtle" heads).
- Ears aligned with shoulder in vertical alignment.
- Hands must be below the shoulders with arms (determined by upper arm) in a position of 12 o'clock.
- Body should come over hands and legs should extend. The energy should push through the shoulders.
 Fingers should point to heels and elbows should be extended, but not hyperextended.
- Hold for 2 full 8 counts.

4. Front layout on land

- Athletes roll onto their stomach after bridge.
- Athletes extend their legs (from the pelvis/ hips) and their trunk with controlled movement allowed lumbar extension is 20-25 degrees in a lengthened position (no hyperextension more then 25 degrees) of their lumbar spine, to achieve a "canoe" position.
- Neutral cervical spine is maintained and core should be tight (ribs not poking out and no hyperextension of lumbar spine)
- Legs and feet together, both knees are fully extended. Both ankles are fully plantar flexed and toes are flexed maximally.
- Upper arms are placed beside the trunk, with elbows bent, and forearms in parallel to upper arms, creating a "W" position, parallel to the floor.
- Hold for 2 full 8 counts.





5. Prone shoulder hyper flexion with dowel

- Athletes start position lying on their stomach.
- Arms are extended above their head resting on the floor; inner arms are touching both sides of the head.
- Hands firmly grasp a dowel at a distance equal to the width of the athlete's head.
- Extend the arms as high as possible, raising the dowel off the ground towards the ceiling.
- The distance from the mid-point (marked off prior) of the bottom of the bar to the floor.
- Feet, legs, torso and forehead must remain in contact with the floor.
- Hold extension for 2 full 8 counts.

6. Right Needle followed by Left Needle

- Athletes will assume a standing pike position with feet on the "X" and palms on the ground.
- Torso is straight and in line with the head. The chest and head are close to the standing leg as possible, at a position of 5/7 o'clock (in comparison to a clock).
- Left leg is lifted to the vertical position with hips, knee and foot of the vertical leg square.
- Minimal turnout is allowed (1 o'clock or less).
- Both knees are fully extended. Left ankle full plantar flexion.
- Maintain the needle position for 2 full 8 count set.
- Athletes will assume a standing pike position with feet on the "X" and palms on the ground.
- Torso is straight and in line with the head. The chest and head are close to the standing leg as possible, at a position of 5/7 o'clock (in comparison to a clock).
- Right leg is lifted to the vertical position with hips, knee and foot of the vertical leg square.
- Minimal turnout is allowed (1 o'clock or less).
- Both knees are fully extended. Right ankle full plantar flexion.
- Maintain the needle positions for 2 full 8 count set.

7. Standing Pike Position (Barracuda set-up)

- From a tuck position with the feet together and on the "X" on their yoga mat and hands on the ground
- Push up the hips to position in one count
- Legs together, fully extended, and perpendicular to the floor
- Body is pressed against legs with stomach, chest and face as close to the body, ideally touching
- Hands should be palm up, behind legs (barracuda set-up)
- Hold for 2 full 8 counts.

8. Ariana Rotation

- From the pike position, right leg moves backward to assume left split position on centerline with maximum leg extension and hold 2 full counts of 8.
- A rotation is executed to assume the center split. Athletes may use hands and arms to assist
 with rotations and maintain the center split for 2 full sets of 8 counts.
- A rotation is executed to assume the right split position on the centerline. Athletes may use hands and arms to assist with rotation and hold the position for 2 full set of 8 counts.

	CORE ROUTINE – LEVEL 1 (20 sec/ exercise)	
PURPOSE	PROTOCOL	SCORING CRITERIA
To develop core strength	 Athlete performs each exercise in order as listed on the score sheet for 20 seconds with no rest. Please read the document titled "Performance Core" (red background) for all the details regarding each exercise. Clicking each image will lead you to a video demonstration of the exercise Please review the video of all the exercises performed one after another. 	Athlete receive one (1) point for each exercise if they complete the exercise for the complete 20 seconds and takes no rest while changing from one exercise to the next.





	12.5m Front Flutter Kick
PURPOSE	PROTOCOL SCORING CRITERIA
To assess speed	- Athletes start with one hand on the pool deck, the other arm is on the water surface facing the direction of the pool lanes, body in a tuck position, two feet touching the wall
Athlete's objective is to swim 12.5m of the pool in front flutter kick as fast as possible	 Starter says: Ready Whistle Hands must be held together at all times; face may enter the surface water; and athletes may breath when necessary (forward facing ONLY). Time will be recorded when athlete achieve the distance of 12.5m.

				12.5	m Propellor				
		PURPOSE		F	ROTOCOL	SCORING CRITERIA			
To assess speed – Athletes start in a bac – Starter says: Ready			t in a back layout position with both hands touching the wall. Ready Whistle						
of the	of the pool propeller sculling as fast - Face must stay above and				ether and toes must stay at the surface at all times. ove and out of the water at all times. rded when athletes toes pass the 12.5m marker.				
Coach			e each athlete con		.e.: 5m, and build up the capacity to complete 12.5m ies for height, body position and technique in daily t				
1	0	toes, knees, hips in full extension	1	0	Flat sculling motion used with wrists bent well backbottom, palms flat	ck so that the fingertips point to the			
1	0	shoulders full flexion	1	0	Upper arms stationary				
1	0	legs stay together (side by side) for entire 12.5	n 1	0	Elbows are held in the same position, 45degrees f	rom the head, in a "Y" position			
Heig	ht								
1	0	Top of the foot of foot stay dry (at the surface) 12.5m	for entire						
1	0	face stays dry (at the surface) for entire 12.5m							
1	0	anterior hips stay dry for entire 12.5m							







L2T / T2T (Stage 3/4)

11-12 Years

General Athletic & Synchro Skills





SKILLS:	11-12	LEARN TO TRAIN	Nov/ Dec	Jan/ Feb	Feb/ March	April/ May
	Land: to	pe performed as an individual routine				
BAL	1. Tripod he	eadstand OR option: Figure trainer vertical	V	club	club	club
FLEX	2. Standing	Back Pike (Barracuda Set-up)	V	club	club	club
FLEX	3. 90deg Back pike			club	club	club
FLEX	4. Back Be	nd / Bridge OR option: Prone Back Extension	\square	club	club	club
SPD	5. Ballet Le	g Speed Skill R/L	$\overline{\mathbf{V}}$	club	club	club
STRG	6. V-sit: 10	repetitions	$\overline{\mathbf{Z}}$	club	club	club
STRG/FLEX	7. Prone shoulder hyper flexion w dowel			club	club	club
FLEX	8. Needle R/L			club	club	club
FLEX	9. Ariana rotation			club	club	club

^{*} Toes Flexion & Ankle PF (plantarflexion) to be assessed within above skills

CORE: Level 1 - 30 sec/ exercise with no rest

SPEED: 11-12	Nov/ Dec	Jan/ Feb	Feb/ March	April/May
25 m Front flutter kick under 22 sec	V	club	club	club
25 m Propeller under 25 sec	V	club	club	club
Front crawl: 25m under 20 sec	V	club	club	club

BASIC TRANSITIONS:	11-12 Group pi	cked prior to competition	Nov/ Dec	Jan/ Feb	Feb/ March	April/May
Group 1	Group 2	Group 3 Group 4				
☑ 1 st half ballet leg	☑ 1 st half barracuda	☑ 1 st half kip ☑ 1 st half water				
☑ 2 nd half barracuda	(to pike)					
(from pike)	☑ 2 nd half ballet leg	swordfish				
☑ 1 st half ballerina	☑ 1 st half walkover	\square 1 st half swan \square 2 nd half kip		\square		
	back					
back	☑ 2 nd half ballerina	drop swordfish				

FIGURES: 11-12	Optional group picked	prior to competition		Nov/ Dec	Jan/ Feb	Feb/ March	April/May
Compulsory	Group 1	Group 2	Group 3				
106 Straight Ballet Leg (new)	420 Walkover back	311 Kip	226 Swan (new)			Ø	[7]
301 Barracuda	324 Ballerina	401 Swordfish	363 Water Drop			<u>V</u>	[V]

^{***} Please refer to the FINA Judges and Coaches manuals and the FINA 2017-2021 figure videos for the basic positions, transitions and figures descriptions.





STRG = strength CORE = core SPD = speed BAL = Balance FLEX = flexibility SKILLS: 11-12 TRAIN TO TRAIN **Nov/ Dec** Jan/ Feb Feb/ March **April/ May** May/ June Land: to be performed as an individual routine 1. Tripod headstand BAL $\overline{\mathbf{V}}$ club club club \checkmark FLEX 2. Standing Back Pike (Barracuda Set-up) $\overline{\mathbf{V}}$ club club club \checkmark FLEX 3. 90deg Back pike $\overline{\mathbf{V}}$ $\overline{\mathbf{V}}$ club club club FLEX 4. Bridge OR option: Prone Back Extension $\overline{\mathbf{Q}}$ club $\overline{\mathbf{V}}$ club club 5. Ballet Leg Speed Skill R/L SPD $\overline{\mathbf{A}}$ club club club V STRG 6. V-sit: 10 repetitions $\overline{\mathbf{V}}$ club club club $\overline{\mathbf{A}}$ STRG/FLEX 7. Prone shoulder hyper flexion w dowel $\overline{\mathbf{A}}$ $\overline{\mathbf{A}}$ club club club 8. Push-up: 10 repetitions STRG $\overline{\mathbf{V}}$ club club $\sqrt{}$ club FLEX 9. Needle R/L $\overline{\mathbf{A}}$ club club club $\overline{\mathbf{A}}$ FLEX 10. Ariana rotation $\overline{\mathbf{Q}}$ club club club $\overline{\mathbf{Q}}$

CORE: Level 1 - 30 sec/ exercise with no rest

SPEED		Nov/ Dec	Jan/ Feb	Feb/ March	April/ May	May/ June
	25m Front flutter kick: under 20 sec					Ø
	25m Propeller: under 22 sec	Ø		V		Ø
STAMINA						
	100m IM:			Ø		☑ Espoir: 200IM
Synchro Specific Swim:						
	50m					

BASIC TRANSITIONS	Group picked prior to c	ompetition		Nov/ Dec	Jan/ Feb	Feb/ March	April/ May	May/ June ESPOIR
Group 1	Group 2	Group 3	Group 4					
 ✓ 1st half ballet leg ✓ 2nd half barracuda (from pike) ✓ 1st half ballerina ✓ 2nd half walkover back 	 ✓ 1st half barracuda (to pike) ✓ 2nd half ballet leg ✓ 1st half walkover back ✓ 2nd half ballerina 	✓ 1st half kip ✓ 2nd half swordfish ✓ 1st half swan ✓ 2nd half water drop	 ✓ 1st half water drop ✓ 2nd half swan ✓ 2nd half kip ✓ 1st half swordfish 	V	V			
FIGURES:	Optional group picked prior to competition			Nov/ Dec	Jan/ Feb	Feb/ March	April/ May	May/ June
Compulsory	Group 1	Group 2	Group 3					
106 Straight Ballet Leg (new)	420 Walkover back	311 Kip	226 Swan (new)			V	$\overline{\checkmark}$	V
301 Barracuda	327 Ballerina	401 Swordfish	363 Water Drop			V	V	V

^{*} Toes Flexion & Ankle PF (plantarflexion) to be assessed within above skills





Breakdown of transitions

Figure	1st half	2nd half
Straight Ballet leg (fig. 106)	to ballet leg position	from ballet leg position
Barracuda (fig. 301)	to pack pike position	from back pike position
Walkover Back (fig. 420)	to split position	from split position
Ballerina (fig. 327)	to submerged flamingo position	from submerged double ballet leg position
Kip (fig. 311)	to vertical position	from inverted tuck position
Swordfish (fig. 401)	to bent knee surface arch position	from bent knee surface arch position
Swan (fig. 226)	to knight position	from knight position
Waterdrop (fig. 363)	to bent knee position	from bent knee position





Learn to Train 11-12 / Train to Train (phase 1) 11-12

The following skills are to be performed in a skills routine * or individual stations (as per provincial implementation).

* one skill following another with no pause in transitioning from one skill to another.

1. Tripod Head Stand

- Athletes start in a 4 pt. stance on the "X" on their yoga mat
- After the signal to start, athlete assumes modified tripod head stand position: use hands/ arms and top of head as the base, also referred to as a yoga tripod headstand OR head on the floor (may have a small mat) with hands on the floor, elbows at 90°. Take 1 full 8 count to setup. Athlete gets 3 attempts to get set.
- Vertical alignment or ears, shoulder joint, hip joint, and ankle joint and vertical position is perpendicular to the floor.
- Ribs connected to abdominals (no ribs poking out).
- Legs and feet together, knees and ankles extended as per Canadian Standard.
- Balanced control for 2 full count of 8.
- Athletes return safely and carefully to tuck position, feet on the "X" on the mat/ground.

2. Standing Pike Position (Barracuda set-up)

- From a tuck position with the feet together and on the "X" on their yoga mat and hands on the ground
- Push up the hips to position in one count
- Legs together, fully extended, and perpendicular to the floor
- Body is pressed against legs with stomach, chest and face as close to the body, ideally touching
- Hands should be palm up, behind legs (barracuda set-up)
- Hold for 2 full 8 counts.

3. 90° Back Pike Position

- Athletes start position lying on back, your trunk should be flat on the ground, shoulder blades down, arms beside the body.
- Focus on 90° position, legs should be together, perpendicular with the body.
- The knees and ankles should be in full extension as per Canadian standard and the eyes looking at ceiling.
- Maintain the position for 2 full counts of 8.

4. Back Bend or Bridge Position (or prone back extension/ cobra)

- Athletes start position lying on back, heels to bum, legs together and hands prepared beside the head under the shoulders.
- Push up to bridge position, keeping feet and hands in starting position. Body should come over hands and legs should extend. The energy should push through the shoulders. Fingers should point to heels and elbows should be extended, but not hyperextended. Feet and legs must be together and extended.
- Cervical spine must remain neutral (natural curve of the spine), with the head hanging straight down (no "turtle" heads).
- Ears aligned with shoulder in vertical alignment.
- Hands must be below the shoulders with arms (determined by upper arm) in a position of 12 o'clock.
- Hold for 2 full 8 counts.

5. Ballet Leg Speed Skill

Assume a plank position on one count. Hands should be directly below shoulders, legs together and extended. Body alignment should be ankles; hips, shoulders, ears and the core should be tight.
 Elbows are extended, but not hyperextended. Fingers should be pointing forward and eyes looking down. Hold the position for 2 full counts of 8.

6. V-Ups

- Start position = lying flat on back with arms at side and shoulders, fingers and heels in contact with the ground.
- Raise both legs and torso together (and equally) until body is at a 90° angle at the hips (45° for legs and 45° for torso and head).
- Simultaneously lower legs and torso to start position each repetition and repeat.
- Fingers should maintain contact with the ground throughout the exercise. They may slide forward and backward but not assist.
- Feet and legs must be together and extended.
- Torso should be fully extended (neutral spine, natural curves, should be maintained throughout no rounding of the back).
- Complete one V-up in 4 counts (2 count to flex & 2 counts to extend).
- Perform up to 10 repetitions with all above-mentioned points attained.





7. Prone shoulder hyper flexion with dowel

- Athletes start position lying on their stomach.
- Arms are extended above their head resting on the floor; inner arms are touching both sides of the head.
- Hands firmly grasp a dowel at a distance equal to the width of the athlete's head.
- Extend the arms as high as possible, raising the dowel off the ground towards the ceiling.
- The distance from the mid-point (marked off prior) of the bottom of the bar to the floor.
- Feet, legs, torso and forehead must remain in contact with the floor.
- Hold extension for 2 full 8 counts.

8. Push-ups (Tricep) = 10 repetitions - T2T only

- From plank position, arms should bend at elbow level with elbows staying close to the body.
 Hands below the shoulder.
- Horizontal alignment of ears, shoulders, hips, knees and ankle joint.
- Legs should remain straight and together, face should remain looking at the ground.
- Body descends close to the floor and remains parallel. Bottom of push-up is when body and upper arm is parallel to the ground. Elbows will have a 90° angle.
- One push up for every four counts, 2 counts to flex and to counts to extend elbows.
- Perform 10 repetitions with all above-mentioned points attained.

8. Right Needle followed by Left Needle

(9)

- Athletes will assume a standing pike position with feet on the "X" and palms on the ground.
- Torso is straight and in line with the head. The chest and head are close to the standing leg as possible, at a position of 5/7 o'clock (in comparison to a clock).
- Minimal turnout is allowed (1 o'clock or less).
- Both knees are fully extended. Left ankle full plantar flexion.
- Maintain the needle position for 2 full 8 count set.
- Athletes will assume a standing pike position with feet on the "X" and palms on the ground.
- Torso is straight and in line with the head. The chest and head are close to the standing leg as possible, at a position of 5/7 o'clock (in comparison to a clock).
- Right leg is lifted to the vertical position with hips, knee and foot of the vertical leg square.
- Minimal turnout is allowed (1 o'clock or less).
- Both knees are fully extended. Right ankle full plantar flexion.
- Maintain the needle positions for 2 full 8 count set.

9. Ariana Rotation

(10)

- From the pike position, right leg moves backward to assume left split position on centerline with maximum leg extension and hold 2 full counts of 8.
- A rotation is executed to assume the center split. Athletes may use hands and arms to assist with rotations and maintain the center split for 2 full sets of 8 counts.
- A rotation is executed to assume the right split position on the centerline. Athletes may use hands and arms to assist with rotation and hold the position for 2 full set of 8 counts.

CORE ROUTINE – LEVEL 1 (30sec/ exercise)							
PURPOSE	PROTOCOL	SCORING CRITERIA					
To develop core strength	 Athlete performs each exercise in order as listed on the score sheet for 30 seconds with no rest. Please read the document titled "Performance Core" (red background) for all the details regarding each exercise. Clicking each image will lead you to a video demonstration of the exercise Please review the video of all the exercises performed one after another. 	Athlete receive one (1) point for each exercise if they complete the exercise for the complete 30 seconds and takes no rest while changing from one exercise to the next.					

Please see GENERAL ATHLETIC and SYNCHRO SCORE SHEET for full details on scoring criteria's



anterior hips stay dry for entire 25m

PSO-NSO Skills Protocol 2017-2018



25m Front Flutter Kick							
PURPOSE	PROTOCOL SCORING CRITERIA						
To assess speed Athlete's objective is to swim 25m of the pool in front flutter kick as fast as possible	 Athletes start with one hand on the pool deck, the other arm is on the water surface facing the direction of the pool lanes, body in a tuck position, two feet touching the wall Starter says: Ready Whistle Hands must be held together at all times; face may enter the surface water; and athletes may breath when necessary (forward facing ONLY). 						
	Time will be recorded when athlete achieve the distance of 25m.						

25m Propellor						
PURPOSE	PROTOCOL	SCORING CRITERIA				
To assess speed Athlete's objective is to swim 25m of the pool propeller sculling as fast as possible	 Athletes start in a back layout position with both hands touching the wall. Starter says: Ready Whistle Legs must be together and toes must stay at the surface at all times. Face must stay above and out of the water at all times. Time will be recorded when athletes toes pass the 25m marker. 	SPEED = Time to complete the task				

Coaches are reminded to develop competent propeller technique on short distances, i.e.: 5m, and build up the capacity to complete 25m with perfect technique.

Coacne	s are a	asked to use the following guidelines to evaluate each athlete con	ipete	ncies	s for neight, body position and technique in daily training environment:
Exten	sion		Tec	hniq	ue
1	0	toes, knees, hips in full extension	1	0	Flat sculling motion used with wrists bent well back so that the fingertips point to the bottom, palms flat
1	0	shoulders full flexion	1	0	Upper arms stationary
1	0	legs stay together (side by side) for entire 25m	1	0	Elbows are held in the same position, 45degrees from the head, in a "Y" position
Heigh	t				
1	0	Top of the foot of foot stay dry (at the surface) for entire 25m			
1	0	face stays dry (at the surface) for entire 25m			

	25m Freestyle 100m IM / 200m IM (for T2T phase	e 1 athletes competing at Espoir Championships)
PURPOSE	PROTOCOL	SCORING CRITERIA
To assess aerobic stamina	Athletes start with one hand on the pool deck, the other arm is on the water surface facing the direction of the pool lanes, body in a tuck position, two feet	SPEED = Time to complete the task
L2T: Athlete's objective is to swim	touching the wall	
50m Freestyle as fast as possible	 Starter says: Ready Whistle Athlete completes 2 laps of butterfly, 2 laps of backstroke, 2 laps of 	
T2T: Athlete's objective is to swim 100m IM as fast as possible	breaststroke and 2 laps of freestyle. - Flip turn or two-hand touch (as per each stroke) obligatory. At the end of each	
	lap: athletes complete a flip turn or two-hand touch, followed by two foot	





T2T: Athletes participating at Espoir	push-off (similar to breast-stroke turn in competitive swimming), dolphin or		
Championships' objective is to swim	flutter kick during streamline push-off permitted.		
200m IM as fast as possible	- Time will be recorded when athlete completes a one hand touch on side of		
	pool.		

	50m SYNCHRO SPECIFIC SWIM (for T2T phase 1 athletes competing at Espoir	Championships)
PURPOSE	DEPENDENT MEASURE	REQUIRED EQUIPMENT
 To assess speed and height of propulsion skills To assess basic positions To assess sculling technique 	Time to complete 50m Body position Sculling technique Height	☐ Athlete Scoresheet ☐ Whistle ☐ Metronome set at 135 ☐ Timers ☐ Stopwatch
	PROTOCOL	
	 Athletes start with left hand on water surface with fingers touching the pool Starter says: Ready Whistle Time will be recorded when athlete completes a one handed touch (after the Skill 1: Right travel Eggbeater kick to 12.5m marker. Left arm horizontal on surface Skill 2: At 12.5m marker, athlete turns ¼ turn, submerges to vertical position un Vertical Position, holds for 16 counts, 4 count sink, back tuck somersault up to marker at 12.5m. Skill 3: Kick-Pull-Kick to the wall. Skill 4: Athlete takes a back layout position, toes touching the wall, raises rig travelling and then travel 12.5m while maintaining right Ballet Leg position. Skill 5: At 12.5m mark, athlete goes from right ballet leg position to inverted to (either leg), holds for 16 counts, completes a back tuck somersault into three Bollett arm directly into a submerged back pike position and completes a Rocket. underwater and surfaces going immediately into left travel Eggbeater. Skill 6: Left travelling Eggbeater kick from 12.5m marker to 25m wall/ bulkhead. It touches the wall with the left hand. 	e left eggbeater travel) on side of pool/ deck. e. der the surface, hold 4 count, rise in 4 counts, assume a posurface in 4 counts. Athlete must stay in line with the ht leg to Ballet Leg position (through sailboat) without suck position, hold 4 counts, assumes a Fishtail position posts — 1st boost: no arms, 2nd boost: right arm, 3rd boost: Athlete completes a back tuck somersault, turns ½ turn





SCORING CRITERIA FOR 50M SYNCHRO SPECIFIC SWIM

	SPEED (bonus points)							
	+ 2 pts If completed under 2min15sec							
	Eggbeater (right)				Eggbeater (left)			
Body position Height				Body position		Height		
1 pt 1 pt 1 pt 1 pt 1 pt	horizontal arm remains straight and at surface vertical body perpendicular to water surface hips under shoulders Effortless: appears stable with minimal movement	9.5 pts 8.5 pts 6.5 pts 4.5 pts	Mid bust Arm pit dry Clavicle dry Mid-neck or lower	1 pt 1 pt 1 pt 1 pt 1 pt	horizontal arm remains straight and at surface vertical body perpendicular to water surface hips under shoulders Effortless: appears stable with minimal movement	9.5 pts 8.5 pts 6.5 pts 4.5 pts	Arm pit dry Clavicle dry	
	Ballet Leg				Kick Pull Kick			
	Body position Height				Body position		Height	
1 pt	Surface leg parallel to surface	8.5 pts	Mid thigh	1 pt	Body at 45 angle to surface	9.5 pts	Mid bust	
1 pt	Vertical leg 90deg from trunk & perpendicular to surface	7.5 pts	7.5 pts Low thigh (well above knee cap)		Timing & sequence of upper & lower movements	8.5 pts	Arm pit dry	
1 pt	Alignment of ear, shoulder & hip joint, ankle of horizontal leg	6.5 pts	Above knee cap)	1 pt Effortless: appears stable with minimal movement		6.5 pts	Clavicle dry	
1 pt	Knees and ankles extended	5.5 pts	Knee cap or lower			4.5 pts	Mid-neck or lower	
	Vertical Position				Fishtail Position (eith	er leg)		
	Body position & Sculling		Height		Body position & Sculling		Height	
1 pt	Support scull is used	8.5 pts	Mid thigh or higher	1 pt	Foot of forward leg at the surface	10 pts	Suit with back of horizontal leg dry	
1 pt	Body perpendicular to water surface	7.5 pts	Low thigh (well above knee cap)	1 pt	Hip joints are on horizontal line and square	9.5 pts	Upper thigh	
1 pt	Full extension of body with legs together	6.5 pts	Above knee cap	1 pt	Support scull is used	8.5 pts	Mid thigh	
1 pt	Alignment of ear, shoulder & hip joint, and ankle bone	5.5 pts	Knee cap or lower	1 pt	Alignment of ear, shoulder & hip joint, and ankle bone	7.5 pts	Low thigh (well above knee cap)	
1 pt 1 pt	Full extension of knees and plantar-flexion of ankles 16 count hold			1 pt 1 pt	Full extension of knees and plantar-flexion of ankles 16 count hold	6.5 pts	Above knee cap or lower	
	Boost				Rocket			
	Body position & Timing		Height		Body position & Timing		Height	
1 pt	Vertical alignment of body	8.5 pts	Mid pelvis or lower	1 pt	Alignment of ears, shoulders, hip & ankle at the Vertical Position	9.5 pts	Ribs or higher	
1 pt	Rapid rise	7.5 pts	Top of pelvis or higher	1 pt	Rapid rise with no pauses (obvious increase in the speed of action)	8.5 pts	Waist or lower	

VISUAL: Please refer to video on Synchro Canada's YouTube channel

https://youtu.be/oG5hjJcfKJo?list=PLl 5k-PMxNK2vN6Zw5mini3tXiEY2JmTM





LATERAL SPLIT (for T2T phase 1 athletes competing at Espoir Championships)					
PURPOSE	VISUAL	PROTOCOL			
To assess suppleness		 This skill will be evaluated during the 11-12 figure competition at Espoir Championships. Athletes will be evaluated as per the evaluation checklist by an evaluator assigned by Synchro Canada. 			

SCORING CRITERIA

1 point	Full Extension of the legs throughout as per Canadian Standard
1 point	Vertical alignment of the body
1 point	Horizontal alignment of the legs
1 point	Legs are dry at the surface.
1 point	Hips square
1 point	Back leg knee cap facing the ceiling
4 point	Complete FLAT split

SURFACE ARCH (for T2T phase 1 athletes competing at Espoir Championships)				
PURPOSE	VISUAL	PROTOCOL		
To assess suppleness		 This skill will be evaluated during the 11-12 figure competition at Espoir Championships. Athletes will be evaluated as per the evaluation checklist by an evaluator assigned by Synchro Canada. 		

SCORING CRITERIA

1 point	Hip joints on a horizontal line
1 point	Shoulder joints on a horizontal line
1 point	Hips and shoulder joints 'square' & parallel to one another
1 point	Head (ears specifically) in line with shoulders
1 point	Full extension of knees and ankles
1 point	Thighs and feet at the surface
1 point	Hips 0-10° under the surface



GENERAL ATHLETIC and SYNCHRO SKILLS SCORE SHEET



LEARN TO TRAIN (stage 3) : 11-12 yrs old				
TΔRT #·	ATHIFTE NAME:	ΔGF/VR·		

Circle the deductions/ score for each category. Points possible are noted for each event

LAND SKILLS (74 pts possible) - TOTAL SCORE

1 TRIPOD HEADSTAND

Head (ears specifically), shoulders, hips and ankles aligned

Vertical body position is perpendicular to floor 1

Ribs drawn into abdominals; Abdominals & Glutes engaged 1

Knees fully extended & Ankles fully plantar flexed (as per Canadian standard)

Total out of 4:



6 V-UPS

Legs in full extension and together

90 degree flexed position attained each repetition 1

Torso (hips, shoulder, head) aligned & fully extended. 1 10 repetitions are completed with all competencies accomplished 1

7 PRONE SHOULDER HYPER FLEXION WITH DOWEL

Total out of 4:

> 60 cm Stick to floor 5

50 cm - 59 cm 4

40 cm - 49 cm 3

30 cm - 39 cm 2 20 cm - 29 cm 1 <19 cm 0



2 STANDING BACK PIKE POSITION (Barracuda set-up)

Legs together 1

Knees fully extended as per Canadian standard 1

Stomach, chest and face touching legs 1

Legs in full extension and together 1

Total out of 3:



3 90 DEGREE BACK PIKE POSITION

4 BACK BEND or BRIDGE

Legs at 90 angle perpendicular with the body.

Ears aligned with shoulder in vertical alignment

Legs together

Knees fully extended & Ankles fully plantar flexed (as per Canadian standard) 1

Total out of 3:



Left Leg is at 12 o'clock

Right leg is at 6 o'clock

Total out of 5:

Both knees and top ankle are fully extended as per Canadian standard

Hold for 2 full counts of 8 1

Total out of 7:



Hold for 2 counts of 8 Total out of 4:

NEEDLE - RIGHT

8 NEEDLE - LEFT

Right Leg is at 12 o'clock

Left leg is at 6 o'clock

Both knees and top ankle are fully extended as per Canadian standard 1

Hold for 2 full counts of 8 1

Total out of 7:



5 BALLET LEG SPEED SKILL (lower segment)

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Right ballet leg

Horizontal knee & ankle extension throughout as per Canadian standard 1 0

Elbows in full extension (no hyperextension) with upper arm in 12 o'clock position 1

Vertical knee achieves full extention with each repetition 1

Completes 1 repetition per count for 2 full counts of 8 1

Left ballet leg

0

Horizontal knee & ankle extension throughout as per Canadian standard 1 0

Vertical knee achieves full extention with each repetition 1

Completes 1 repetition per count for 2 full counts of 8

Total out of 6:





9 ARIANA ROTATION

Vertical alignment of ears, shoulders and torso

Hips and shoulders square 1

Extension of both knees and ankles as per Canadian standard 1

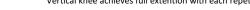
Complete FLAT split

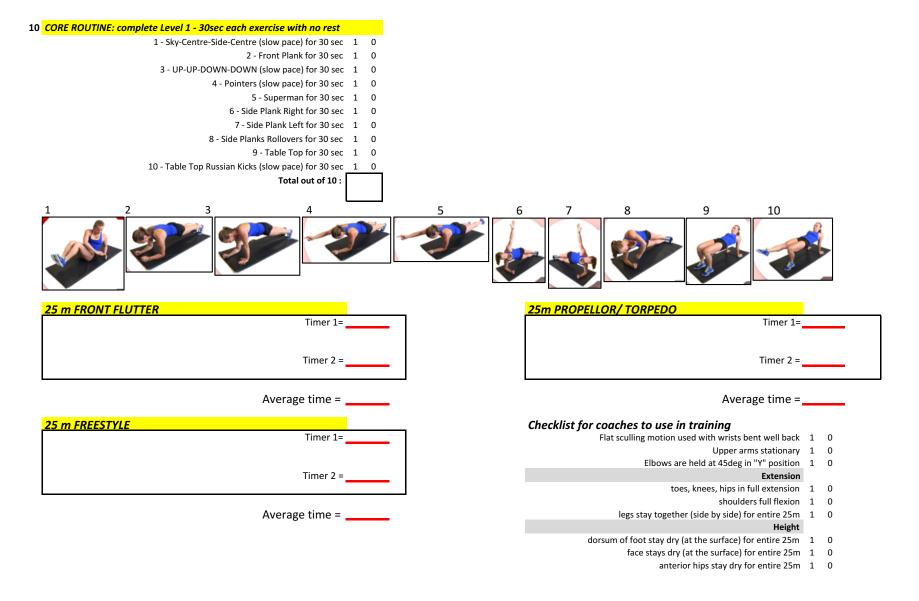
Total out of 7 (for each split):









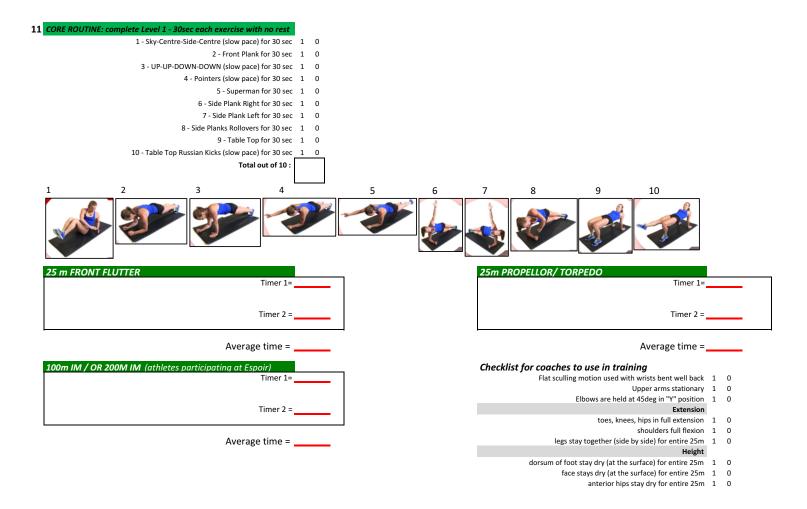




GENERAL ATHLETIC and SYNCHRO SKILLS SCORE SHEET



	TRAIN TO TRAIN (stage 4) : 11-12 yrs old	
START #:	ATHLETE NAM	ле:	_AGE/YR:
Circle the deduction	ns/ score for each category. Points possible are noted	for each event	
LAND SKILLS (78 pts possible) - TOTAL SCORE	3		
TRIPOD HEADSTAND		7 PRONE SHOULDER HYPER FLEXION WITH DOWEL	distance from dowel to floor
Head (ears specifically), shoulders, hips and ankles aligned 1	0	> 60 cm Stick to floor	r 5
Vertical body position is perpendicular to floor 1	0	50 cm - 59 cm	n 4
Ribs drawn into abdominals ; Abdominals & Glutes engaged 1	0	40 cm - 49 cm	
Knees fully extended & Ankles fully plantar flexed (as per Canadian standard) 1	0	30 cm - 39 cm	
Total out of 4:		20 cm - 29 cm	
STANDING BACK PIKE POSITION (Barracuda set-up)		<19 cm Total out of 5 :	
Legs together 1	0		
Knees fully extended as per Canadian standard 1	0	8 PUSH-UP (Tricep)	
Stomach, chest and face touching legs _ 1	0	Ears, shoulders, hips, knees, ankles in horizontal line	e 1 0
Total out of 3:		Body descends close to floor and remains parallel	1 1 0
		Legs in full extension and together	r 1 0
90 DEGREE BACK PIKE POSITION		10 repetitions are completed with all competencies accomplished	1 0
Legs at 90 angle perpendicular with the body. 1	0	Total out of 4:	1
Legs together 1	0	9 NEEDLE - RIGHT	
Knees fully extended & Ankles fully plantar flexed (as per Canadian standard) 1 Total out of 3:		Left Leg is at 12 o'clock	k 4 0
Total dat of 3.		Right leg is at 6 o'clock	
BACK BEND or BRIDGE	_	Both knees and top ankle are fully extended as per Canadian standard	The second second second
Legs in full extension and together 1	0	Hold for 2 full counts of 8	3 1 0
Ears aligned with shoulder in vertical alignment 1	0	Total out of 7:	
ows in full extension (no hyperextension) with Upper arm in 12 o'clock position 1	0		
Hold for 2 counts of 8 1	0	NEEDLE - LEFT	
Total out of 4:		Right Leg is at 12 o'clock	The same of the sa
BALLET LEG SPEED SKILL (lower segment)		Left leg is at 6 o'clock Both knees and top ankle are fully extended as per Canadian standard	The state of the s
Right ballet leg		Hold for 2 full counts of 8	
Horizontal knee & ankle extension throughout as per Canadian standard 1	0	Total out of 7:	
Vertical knee achieves full extention with each repetition 1	0		
Completes 1 repetition per count for 2 full counts of 8 1	0		_
Left ballet leg		10 ARIANA ROTATION	L C R
	0	Vertical alignment of ears, shoulders and torso	
Vertical knee achieves full extention with each repetition 1	0	Hips and shoulders square	
Completes 1 repetition per count for 2 full counts of 8 1	0	Extension of both knees and ankles as per Canadian standard	
Total out of 6:		Complete FLAT split Total out of 7 (for each split) :	
<u></u>		Total out of 7 (for each spirit).	
V-UPS		2	
Legs in full extension and together 1	0		
90 degree flexed position attained each repetition 1	0		
Torso (hips, shoulder, head) aligned & fully extended. 1	0	ARIANA	AKIANA
10 repetitions are completed with all competencies accomplished 1 Total out of 4:			
iotal out of 4:			



<u>*</u>	SYNCHRO SPECIFIC SWIM SCORE SHEET	<u>*</u>	
TRAIN TO TRAIN : 11-12 yrs old		- Manuel	
START #:	ATHLETE NAME	:	AGE/YR
	eductions/ score for each category. Points possible are noted f		
Circle trie de	cauctions, score for each category. Forms possible are noted i	or each event	
50m SYNCHRO SPECIFIC SWIM (104.5 pts possible)			
Time bonus: if under 2min15sec	2 0		
Eggbeater (right)		5 Fishtail Position (either leg)	
Body position		Body position & Sculling	
horizontal arm remains straight and at surface	1 0	Foot of forward leg at the surface	1 0
vertical body perpendicular to water surface	1 0	Hip joints are on horizontal line and square	1 0
hips under shoulders	1 0	Support scull is used	1 0
Effortless: appears stable with minimal movement	1 0	Alignment of ear, shoulder & hip joint, and ankle bone	1 0
Height		Extension of both knees and ankles (as per Canadian standard)	1 0
Mid bust	9.5	16 count hold	1 0
Arm pit dry	8.5	Height	
Clavicle dry	6.5	Suit with back of horizontal leg dry	10
Mid-neck or lower	4.5	Upper thigh	9.5
Vertical Position		Mid thigh	8.5
Body position & Sculling		Low thigh (well above knee cap)	7.5
Support scull is used	1 0	Above knee cap or lower	6.5
Body perpendicular to water surface	1 0		
Full extension of body with legs together	1 0	6 Boost	
Alignment of ear, shoulder & hip joint, and ankle bone	1 0	Body position & Timing	
Extension of both knees and ankles (as per Canadian standard)	1 0	Vertical alignment of body	1 0
16 count hold	1 0	Rapid rise	1 0
Height		Height	
Mid thigh		Mid pelvis or lower	8.5
Low thigh (well above knee cap)		Top of pelvis or higher	7.5
Above knee cap			
Knee cap or lower	5.5	7 Rocket	
Kick Pull Kick		Body position & Timing	
Body position		Alignment of ears, shoulders, hip & ankle at the Vertical Position	
Body at 45 angle to surface		Rapid rise with no pauses (obvious increase in the speed of action)	1 0
Timing & Sequence of upper & lower movements		Height	0.5
Effortless: appears stable with minimal movement		Ribs or higher	9.5
Height		Waist or lower	8.5
Mid bust		C. Frankowskay (left)	
Arm pit dry		8 Eggbeater (left)	
Clavicle dry		Body position & Height	1 0
Mid-neck or lower	4.5	horizontal arm remains straight and at surface	
Ballet Leg		vertical body	
Body position	<u> </u>	hips under shoulders	
Surface leg parallel to surface		Effortless: appears stable with minimal movement	1 0
Vertical leg 90deg from trunk & perpendicular to surface		Height	0.5
Alignment of ear, shoulder & hip joint, ankle of horizontal leg		Mid bust	9.5 8.5
Extension of both knees and ankles (as per Canadian standard)		Arm pit dry Clavicle dry	6.5
Height Mid thigh		•	6.5 4.5
Mid thigh	0.0	Mid-neck or lower	4.3

Low thigh (well above knee cap) 7.5

Above knee cap) 6.5 Knee cap or lower 5.5







Train to Train (Stage 4)

13-15 Years

General Athletic & Synchro Skills





BAL = Balance FLEX = flexibility STRG = strength CORE = core SPD = speed

SKILLS:	13-15 TRAIN TO TRAIN	Nov/ Dec	Jan/ Feb	Feb/ March	April/ May	May/ June
	Land: to be performed as an individual routine					
BAL	Tripod headstand with lateral split R & L	V	club	club	club	
FLEX	2. Standing Back Pike (Barracuda Set-up)		club	club	club	
FLEX	3. Back bend / Bridge OR option: Prone Back Extension	V	club	club	club	
SPD	4. Ballet Leg Speed Skill R/L	V	club	club	club	
STRG	5. V-sit Hold	\square	club	club	club	
STRG/FLEX	6. Prone shoulder hyper flexion w dowel	\square	club	club	club	
STRG	7. Push-up: 12 repetitions	\square	club	club	club	
FLEX	8. Needle R/L	Ø	club	club	club	Ø
FLEX	9. Ariana rotation	Ø	club	club	club	Ø

^{*} Toes Flexion & Ankle PF (plantarflexion) to be assessed within above skills

CORE: Level 2 - 30 sec/ exercise with no rest

SPEED:	Nov/ Dec	Jan/ Feb	Feb/ March	April/ May	May/ June
25m Front flutter kick: under 20 sec	\square	club	club	club	Ø
25m Propeller: under 22 sec	☑	club	club	club	Ø
STAMINA					
200m IM: as per FINA rules	\square		Ø		Ø

BASIC TRANSITIONS Group picked prior to competition					Jan/ Feb	Feb/ March	April/ May	May/ June ESPOIR
Group 1	Group 1 Group 2 Group 3 Group 4							
 ✓ 1st half of Compulsories ✓ 2nd half Gr. 1 figures 	 ✓ 1st half of Gr. 1 figures ✓ 2nd half Compulsories 	☐ 1st half of Gr. 3 figures☐ 2nd half Gr. 4 figures☐	☐ 1st half of Gr. 4 figures☐ 2nd half of Gr. 3 figures☐	\square				

FIGURES:	Optional group picked prior to competition	Nov/ Dec	Jan/ Feb	Feb/ March	April/ May	May/ June
National Stream	FINA 13-15 Figures as per 2017-2021 FINA Ruleboook		V	$\overline{\mathbf{V}}$	V	$\overline{\checkmark}$
Provincial Stream	FINA 13-15 Figures as per 2017-2018 Synchro Canada Rulebook		V	$\overline{\mathbf{V}}$	V	$\overline{\checkmark}$

^{*} the headstands with lateral split can be performed in a figure trainer if required





Train to Train (phase 2) 13-15

The following skills are to be performed in a skills routine * or individual stations (as per provincial implementation).

* one skill following another with no pause in transitioning from one skill to another.

1. Tripod Head Stand with Lateral split R/L

- Athletes start in a 4 pt. stance on the "X" on their yoga mat
- After the signal to start, athlete assumes modified tripod head stand position with right lateral split: use hands/ arms and top of head as the base, also referred to as a yoga tripod headstand OR head on the floor (may have a small mat) with hands on the floor, elbows at 90°. Take 1 full 8 count to set-up. Athletes get 3 attempts to get set. After 1 full 8 count, athletes switch legs to complete left lateral split (use 1 full count of 8 to complete the switch). Athletes hold left split 1 full 8 count.
- Vertical alignment or ears, shoulder joint, hip joint, and ankle joint and vertical position is perpendicular to the floor.
- Ribs connected to abdominals (no ribs poking out).
- Knees and ankles extended as per Canadian Standard.
- Balanced control for 3 full count of 8.
- Athletes return safely and carefully to tuck position, feet on the "X" on the mat/ground.

2. Standing Pike Position (Barracuda set-up)

- From a tuck position with the feet together and on the "X" on their yoga mat and hands on the ground
- Push up the hips to position in one count
- Legs together, fully extended, and perpendicular to the floor
- Body is pressed against legs with stomach, chest and face as close to the body, ideally touching
- Hands should be palm up, behind legs (barracuda set-up)
- Hold for 2 full 8 counts.

3. Back Bend or Bridge Position (or prone back extension/cobra)

- Athletes start position lying on back, heels to bum, legs together and hands prepared beside the head under the shoulders.
- Push up to bridge position, keeping feet and hands in starting position. Body should come
 over hands and legs should extend. The energy should push through the shoulders. Fingers
 should point to heels and elbows should be extended, but not hyperextended. Feet and legs
 must be together and extended.
- Cervical spine must remain neutral (natural curve of the spine), with the head hanging straight down (no "turtle" heads).
- Ears aligned with shoulder in vertical alignment.
- Hands must be below the shoulders with arms (determined by upper arm) in a position of 12 o'clock.
- Hold for 2 full 8 counts.

4. Ballet Leg Speed Skill R/L

- Athletes start in a left bent knee back layout position, right knees and ankles in full extension
- At count 1, extend to a ballet leg, HIT top of ballet leg on each count for 2 full 8 counts
- Athletes returns left leg to back layout position, and assumes a right bent knee back layout position, left knees and ankles in full extension
- At count 1, extend to a ballet leg, HIT top ballet leg position on each count for 2 full 8 counts
- For full points to be awarded, left & right knee must achieve full extension and be synchronized to the counts.

5. V-sit Hold

- Start position = lying flat on back with hands holding a dowel resting across the top of the pelvis.
- Raise both legs and torso together (and equally) until body is at a 90° angle at the hips (45° for legs and 45° for torso and head).
- Dowel rests on legs at knee level.
- Feet and legs must be together and extended.
- Torso should be fully extended (neutral spine, natural curves, should be maintained throughout no rounding of the back).
- Hold the position for 2 full counts of 8.

6. Prone shoulder hyper flexion with dowel

- Athletes start position lying on their stomach.
- Arms are extended above their head resting on the floor; inner arms are touching both sides of the head.
- Hands firmly grasp a dowel at a distance equal to the width of the athlete's head.
- Extend the arms as high as possible, raising the dowel off the ground towards the ceiling.
- The distance from the mid-point (marked off prior) of the bottom of the bar to the floor.
- Feet, legs, torso and forehead must remain in contact with the floor.
- Hold extension for 2 full 8 counts.





7. Push-ups (Tricep) = 12 repetitions

- From plank position, arms should bend at elbow level with elbows staying close to the body.
 Hands below the shoulder.
- Horizontal alignment of ears, shoulders, hips, knees and ankle joint.
- Legs should remain straight and together, face should remain looking at the ground.
- Body descends close to the floor and remains parallel. Bottom of push-up is when body and upper arm is parallel to the ground. Elbows will have a 90° angle.
- One push up for every four counts, 2 counts to flex and to counts to extend elbows.
- Perform 12 repetitions with all above-mentioned points attained.

8. Right Needle followed by Left Needle

- Athletes will assume a standing pike position with feet on the "X" and palms on the ground.
- Torso is straight and in line with the head. The chest and head are close to the standing leg as possible, at a position of 5/7 o'clock (in comparison to a clock).
- Left leg is lifted to the vertical position with hips, knee and foot of the vertical leg square.
- Minimal turnout is allowed (1 o'clock or less).
- Both knees are fully extended. Left ankle full plantar flexion.
- Maintain the needle position for 2 full 8 count set.
- Athletes will assume a standing pike position with feet on the "X" and palms on the ground.
- Torso is straight and in line with the head. The chest and head are close to the standing leg as possible, at a position of 5/7 o'clock (in comparison to a clock).
- Right leg is lifted to the vertical position with hips, knee and foot of the vertical leg square.
- Minimal turnout is allowed (1 o'clock or less).
- Both knees are fully extended. Right ankle full plantar flexion.
- Maintain the needle positions for 2 full 8 count set.

9. Ariana Rotation

- From the pike position, right leg moves backward to assume left split position on centerline with maximum leg extension and hold 2 full counts of 8.
- A rotation is executed to assume the center split. Athletes may use hands and arms to assist with rotations and maintain the center split for 2 full sets of 8 counts.
- A rotation is executed to assume the right split position on the centerline. Athletes may use hands and arms to assist with rotation and hold the position for 2 full set of 8 counts.

10. CORE ROUTINE – LEVEL 2 (30sec/ exercise)							
PURPOSE	PROTOCOL	SCORING CRITERIA					
To develop core strength	 Athlete performs each exercise in order as listed on the score sheet for 30 seconds with no rest. Please read the document titled "Performance Core" (red background) for all the details regarding each exercise. Clicking each image will lead you to a video demonstration of the exercise Please review the video of all the exercises performed one after another. 	Athlete receive one (1) point for each exercise if they complete the exercise for the complete 30 seconds and takes no rest while changing from one exercise to the next.					

Please see GENERAL ATHLETIC and SYNCHRO SCORE SHEET for full details on scoring criteria's





25m Front Flutter Kick							
PURPOSE	PROTOCOL SCORING CRITERIA						
To assess speed	- Athletes start with one hand on the pool deck, the other arm is on the water surface facing the direction of the pool lanes, body in a tuck position, two feet touching the wall						
Athlete's objective is to swim 25m of the pool in front flutter kick under 20 seconds	 Starter says: Ready Whistle Hands must be held together at all times; face may enter the surface water; and athletes may breath when necessary (forward facing ONLY). Time will be recorded when athlete achieve the distance of 25m. 						

			25m Propellor	
		PURPOSE	PROTOCOL	SCORING CRITERIA
	e's ob ool pro	o assess speed jective is to swim 25m of opeller sculling under 20	 Athletes start in a back layout position with both hands touching the wall. Starter says: Ready Whistle Legs must be together and toes must stay at the surface at all times. Face must stay above and out of the water at all times. Time will be recorded when athletes toes pass the 25m marker. 	SPEED = Time to complete the task
	s are as		belier technique on short distances, i.e.: 5m, and build up the capacity to complete 25m with perfect technique. to evaluate each athlete competencies for height, body position and technique in daily training environment: Technique	
1	0	toes, knees, hips in full extensio	1 0 Flat sculling motion used with wrists bent well back so th	at the fingertips point to the bottom, palms flat
1	0	shoulders full flexion	1 0 Upper arms stationary	
1	0	legs stay together (side by side)	for entire 25m 1 0 Elbows are held in the same position, 45degrees from the	e head, in a "Y" position
Heigh	t			
1	0	Top of the foot of foot stay dry (at the surface) for entire 25m	
1	0	face stays dry (at the surface) fo	entire 25m	
1	0	anterior hips stay dry for entire	.5m	

200m IM							
PURPOSE	PROTOCOL	SCORING CRITERIA					
To assess aerobic stamina Athlete's objective is to swim 200m IM as fast as possible	 Athletes start with one hand on the pool deck, the other arm is on the water surface facing the direction of the pool lanes, body in a tuck position, two feet touching the wall Starter says: Ready Whistle Athlete completes 2 laps of butterfly, 2 laps of backstroke, 2 laps of breaststroke and 2 laps of freestyle. Flip turn or two-hand touch (as per each stroke) obligatory. At the end of each lap: athletes complete a flip turn or two-hand touch, followed by two foot push-off (similar to breast-stroke turn in competitive swimming), dolphin or flutter kick during streamline push-off permitted. Time will be recorded when athlete completes a one hand touch on side of pool. 	SPEED = Time to complete the task					





LATERAL SPLIT (for athletes competing in figure competitions)						
PURPOSE VISUAL PROTOCOL						
To assess suppleness		 This skill will be evaluated during the 13-15 figure competitions, ex: at Qualifier & Espoir Championships. Athletes will be evaluated as per the evaluation checklist by an evaluator assigned by Synchro Canada. 				

SCORING CRITERIA

1 point	Full Extension of the legs throughout as per Canadian Standard
1 point	Vertical alignment of the body
1 point	Horizontal alignment of the legs
1 point	Legs are dry at the surface.
1 point	Hips square
1 point	Back leg knee cap facing the ceiling
4 point	Complete FLAT split

SURFACE ARCH (for athletes competing in figure competitions)						
PURPOSE	VISUAL	PROTOCOL				
To assess suppleness		 This skill will be evaluated during the 13-15 figure competitions, ex: at Qualifier & Espoir Championships. Athletes will be evaluated as per the evaluation checklist by an evaluator assigned by Synchro Canada. 				

SCORING CRITERIA

1 point	Hip joints on a horizontal line
1 point	Shoulder joints on a horizontal line
1 point	Hips and shoulder joints 'square' & parallel to one another
1 point	Head (ears specifically) in line with shoulders
1 point	Full extension of knees and ankles
1 point	Thighs and feet at the surface
1 point	Hips 0-10° under the surface

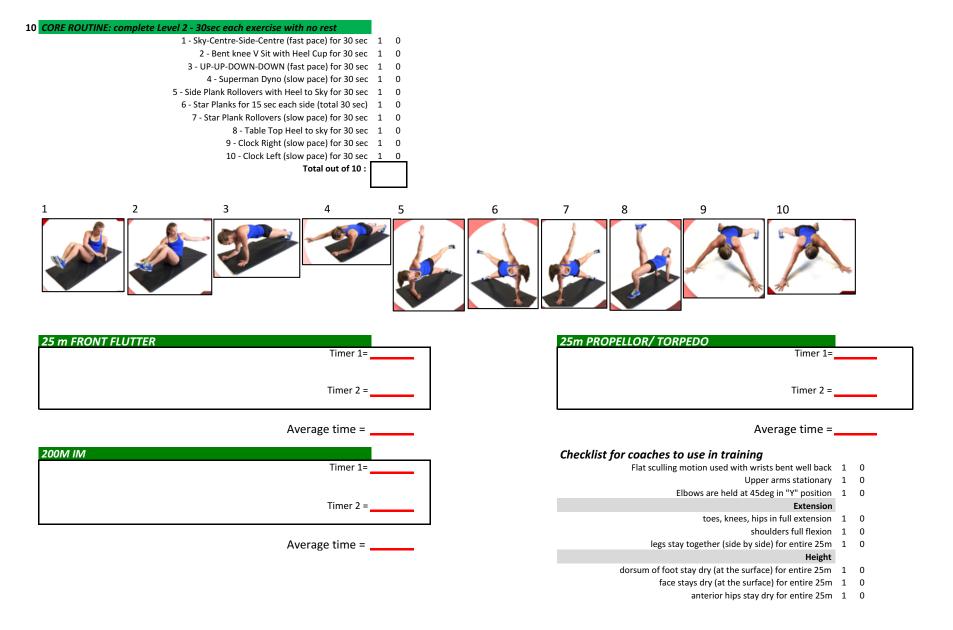


Total out of 4:

GENERAL ATHLETIC and SYNCHRO SKILLS SCORE SHEET



		TRAIN TO TRAIN (sta	ago 4) + 12 15 yrs old	
CTART #.		<u> </u>		ACE (VD.
START #:		ATHLETE NA	ME:	AGE/YR:
	Circle the	e deductions/ score for each category.	Points possible are noted for each event	
LAND SKILLS (88 pts possible) - TOTAL SCORE				
1 TRIPOD HEADSTAND SPLIT RIGHT & LEFT	1		6 PRONE SHOULDER HYPER FLEXION WITH DOWEL	distance from dowel to floor
Head (ears specifically), shoulders and hips aligned Torso is perpendicular to floor Hips and shoulders square Extension of both knees and ankles as per Canadian standard Complete FLAT split Total out of 8:	1 0 1 0 1 0		> 60 cm Stick to flo 50 cm - 59 40 cm - 49 30 cm - 39 20 cm - 29 <19 Total out of 9	cm 4 cm 3 cm 2 cm 1 cm 0
Head (ears specifically), shoulders and hips aligned Torso is perpendicular to floor Hips and shoulders square Extension of both knees and ankles as per Canadian standard Complete FLAT split Total out of 8 :	1 0 1 0 1 0		7 PUSH-UP (Tricep) Ears, shoulders, hips, knees, ankles in horizontal li Body descends close to floor and remains para Legs in full extension and togeth 12 repetitions are completed with all competencies accomplish Total out of a	her 1 0 hed 1 0
2 STANDING BACK PIKE POSITION (Barracuda set-up) Legs together Knees fully extended as per Canadian standard Stomach, chest and face touching legs Hands palm up, behind legs (barracuda set-up) Total out of 4:	1 0		Left Leg is at 12 o'clo Right leg is at 6 o'clo Both knees and top ankle are fully extended as per Canadian standa Hold for 2 full counts o Total out of	ock 1 0 ard 1 0 of 8 <u>1 0</u>
BACK BEND or BRIDGE Legs in full extension and together Ears aligned with shoulder in vertical alignment Elbows in full extension (no hyperextension) with Upper arm in 12 o'clock position Hold for 2 counts of 8 Total out of 4:	1 0 1 0		Right Leg is at 12 o'clo Left leg is at 6 o'clo Both knees and top ankle are fully extended as per Canadian standa Hold for 2 full counts o	ock 1 0 ard 1 0 of 8 1 0
4 BALLET LEG SPEED SKILL (lower segment) Right ballet leg Horizontal knee & ankle extension throughout as per Canadian standard Vertical knee achieves full extention with each repetition Completes 1 repetition per count for 2 full counts of 8 Left ballet leg Horizontal knee & ankle extension throughout as per Canadian standard Vertical knee achieves full extention with each repetition Completes 1 repetition per count for 2 full counts of 8 Total out of 6:	1 0 1 0 1 0 1 0 1 0	THE RESERVE OF THE STATE OF THE	9 ARIANA ROTATION Vertical alignment of ears, shoulders and too Hips and shoulders square Extension of both knees and ankles as per Canadian standa Complete FLAT s Total out of 7 (for each split	are 1 0 1 0 1 0 ard 1 0 1 0 1 0 plit 4 0 4 0 4 0
Legs in full extension and together 90 degree flexed position at the hips maintained Torso (hips, shoulder, head) aligned & fully extended. Hold for 2 full counts of 8	1 0 1 0			









Train to Compete (Stage 5)

Junior 16-18 Years

General Athletic & Synchro Skills





BAL = Balance FLEX = flexibility STRG = strength CORE = core SPD = speed

SKILLS:	Junior/ 16-18 TRAIN TO COMPETE	Nov/ Dec	Jan/ Feb	Feb/ March	April/ May	May/ June
	Land: to be performed as an individual routine					
BAL	Tripod headstand with lateral split R & fast close	Ø	club	club	club	
CORE	2. Core routine Level 3 – 30 sec/ exercise	Ø	club	club	club	
STRG	7. Push-up: 12 repetitions	Ø	club	club	club	Ø
STRG/FLEX	4. Ballet Leg R/L on 2 foam rollers	✓	club	club	club	Ø

^{*} Toes Flexion & Ankle PF (plantarflexion) to be assessed within above skills

STAMINA			
400m IM: as per FINA rules	Ø	Ø	Ø

BASIC TRANSITIONS/ ELEMENTS		Group picked prior to competition			Jan/ Feb	Feb/ March	April/ May	May/ June ESPOIR
Group 1	Group 2	Group 3	Group 4					
✓ 1 st half of Compulsories ✓ 2 nd half Gr. 1 figures	☐ 1st half of Gr. 1 figures☐ 2nd half Compulsories☐	☐ 1st half of Gr. 3 figures☐ 2nd half Gr. 4 figures☐	☐ 1st half of Gr. 4 figures☐ 2nd half of Gr. 3 figures☐	V				

ELEMENTS/ FIGURES:	Optional group picked prior to competition	Nov/ Dec	Jan/ Feb	Feb/ March	April/ May	May/ June
National Stream: ELEMENTS	FINA Junior ELEMENTS as per 2017-2021 FINA Ruleboook		$\overline{\checkmark}$	$\overline{\mathbf{V}}$	V	$\overline{\checkmark}$
Provincial Stream: Elements or Figures	FINA 16-18 Figures or Junior Elements as per 2017-2018 Synchro Canada Rulebook		$\overline{\checkmark}$	$\overline{\mathbf{V}}$	V	$\overline{\checkmark}$

^{*} the headstands with lateral split can be performed in a figure trainer if required





Train to Compete

The following skills are to be performed in a skills routine * or individual stations (as per provincial implementation).

* one skill following another with no pause in transitioning from one skill to another.

1. Tripod Head Stand with Lateral split R & fast close

- Athletes start in a 4 pt. stance on the "X" on their yoga mat
- After the signal to start, athlete assumes modified tripod head stand position with a right lateral split: use hands/ arms and top of head as the base, also referred to as a yoga tripod headstand OR head on the floor (may have a small mat) with hands on the floor, elbows at 90°. Take 1 full 8 count to set-up. Athlete gets 3 attempts to get set.
- Vertical alignment or ears, shoulder joint, hip joint, and trunk position is perpendicular to the floor.
- Ribs connected to abdominals (no ribs poking out).
- Horizontal alignment (180 degree flat split position) of legs.
- Hips square.
- Legs and feet are in full extension as per Canadian standard.
- Balanced control for 1 full count of 8.
- Rapid close in 1 count to a stable, balanced vertical position
- Hold the vertical position for remaining 7 counts.
- Legs and feet together, knees and ankles extended as per Canadian Standard.
- Athletes return safely and carefully to tuck position, feet on the "X" on the mat/ ground.

2. Core routine Level 3 – 30 sec / exercise

- Bent knee to "V"
- 2. Superman Dyno (fast pace)
- 3. Superman Crunch
- 4. Stayin Alive
- 5. Star Plank with Heel to Sky
- 6. Star Planks Dynos
- 7. Table Top Russian Kicks Dyno
- Stretch Clocks with 360 revolution to the right Stretch Clocks with 360 revolution to the left
- Jump Clocks to the right for one 360 revolution
 Jump Clocks to the left for one 360 revolution
- 10. Slam & Twist

3. Push-up (Tricep): 15 repetitions

- From plank position, arms should bend at elbow level with elbows staying close to the body. Hands below the shoulder.
- Horizontal alignment of ears, shoulders, hips, knees and ankle joint.
- Legs should remain straight and together, face should remain looking at the ground.
- Body descends close to the floor and remains parallel. Bottom of push-up is when body and upper arm
 is parallel to the ground. Elbows will have a 90° angle.
- One push up for every four counts, 2 counts to flex and to counts to extend elbows.
- Perform 15 repetitions with all above-mentioned points attained.

4. Ballet Leg R/L on 2 Foam rollers

- Athletes assume a Ballet Leg position on two foam rollers; one placed under the ankles (above the heel) and one placed under the mid-point of the shoulder blades. Athletes may use her arms for assistance and stability (if needed) to assume the position.
- At the timers' signal, athlete maintains the position, with no support from the arms on the floor, for the indicated time.
- Body alignment = an imaginary line through the ears, shoulders, hips, and the horizontal malleolus should be as close to horizontal as possible.
- Gluts (bum) should be engaged 100%.
- Neutral cervical, thoracic and lumbar spine is maintained and the core should be tight (ribs not poking out).
- The vertical thigh (ballet leg) maintains 90° with the horizontal line. The horizontal leg faces the ceiling (no roll-out).
- Both knees are fully extended. Both ankles are fully plantar flexed and toes are flexed maximally.
- Arms are along the side of the trunk parallel to the floor and engaged.
- Hold for 2 full 8 counts.





	400m IM	
PURPOSE	PROTOCOL	SCORING CRITERIA
To assess aerobic stamina	 Athletes start with one hand on the pool deck, the other arm is on the water surface facing the direction of the pool lanes, body in a tuck position, two feet 	SPEED = Time to complete the task
Athlete's objective is to swim 400m	touching the wall	
IM as fast as possible	– Starter says: Ready Whistle	
	 Athlete completes 4 laps of butterfly, 4 laps of backstroke, 4 laps of breaststroke and 4 laps of freestyle (if completing in 25m pool). 	
	Flip turn or two-hand touch (as per each stroke) obligatory. At the end of each	
	lap: athletes complete a flip turn or two-hand touch, followed by two foot	
	push-off (similar to breast-stroke turn in competitive swimming), dolphin or flutter kick during streamline push-off permitted.	
	Time will be recorded when athlete completes a one hand touch on side of	
	pool.	



Circle the deductions/ score for each category. Points possible are noted for each event



Teacher 1	GENERAL ATHLETIC and SYNCHRO SKILLS SCORE SHEET
	TRAIN TO COMPETE (stage 5): JUNIOR / 16-18 yrs old

START #: ATHLETE NAME:

LAND SKILLS (29 pts possible) - TOTAL SCORE



1 TRIPOD HEADSTAND SPLIT (RIGHT) & RAPID CLOSE

Body position & right split position RIGHT

Vertical alignment of head (ears specifically), shoulders and hips (no arched back) 1

- Hips and shoulders square
- Extension of both legs and ankles as per Canadian standard 1
 - Complete FLAT split 4

Total out of 7:



3 PUSH-UP (Tricep)

Body position

- Ears, shoulders, hips, knees, ankles in horizontal line 1 Body descends close to floor and remains parallel
 - Legs in full extension and together 1
- 15 repetitions are completed with all competencies accomplished







Rapid close to Vertical

- Stable, balanced vertical
- Head (ears specifically), shoulders, hips and ankles aligned 1
- Extension of both knees and ankles as per Canadian standard
 - Total out of 3:

4 BALLET LEG POSITION ON TWO FOAM ROLLERS

Right

AGE/YR:

- Head (specifically ears), hips and ankles in horizontal line 1
- Vertical thigh (ballet leg) maintains 90° with the horizontal line 1
- Both knees are extended and both ankle are planter flexed (as per Canadian Standard) 1



Left

- Head (specifically ears), hips and ankles in horizontal line 1
- Vertical thigh (ballet leg) maintains 90° with the horizontal line
- Both knees are extended and both ankle are planter flexed (as per Canadian Standard)

Total out of 3:





2 CORE ROUTINE: complete Level 3 - 30sec each exercise with no rest

- 1 Bent -knee to "V" for 30 sec 1 0
- 2- Superman Dyno (fast pace) for 30 sec 1
 - 3 Superman crunch for 30 sec 1 0
 - 4 Stayin Alive for 30 sec 1 0
- 5 Star Plank with Heel to Sky for 30 sec 1 0
- 6 Star planks Dynos for 30 sec 1
- 7 Table Top russian kicks Dyno for 30 sec 1 0
- 8 Stretch Clocks with 360 revolution to the right 1 0
- Stretch Clocks with 360 revolution to the left 1 0
- 9 Jump Clocks to the right for one 360 revolution 1 0
 - Jump Clocks to the left for one 360 revolution 1
 - 10 Slam & Twist for 360 sec 1

Total out of 12:

400M IM Timer 1= Timer 2 =

Average time = _____

