

Progressive Core Exercise Training For Swimming

QAS Strength & Conditioning Unit

Anthony Giorgi PhD &
Michael Davie

2008

Structure of QLD Swimming Athletes

Queensland swimming has structured athletes into squads based on swimming performance criteria.

Flippers

(Junior/Youth) National aged medalist

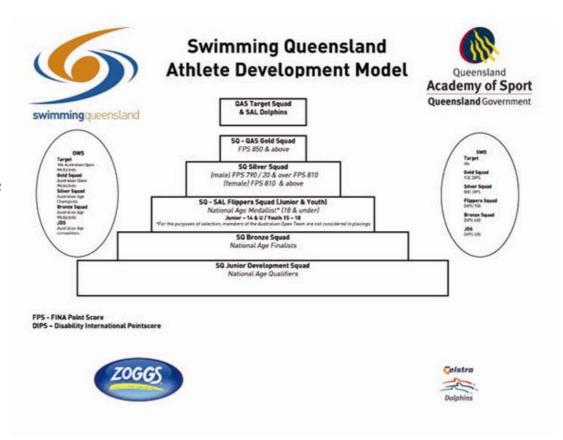
Silver

Male - F.P.S >790 points Female - F.P.S >810 points

Gold

F.P.S >850 points

* F.P.S - FINA points system



Selection Criteria

2008 SQ - QAS Squad Selection Times

Male					Female		
TARGET	GOLD	SILVER (20&O)	SILVER (U/20)	EVENT	SILVER	GOLD	TARGET
22.62	0:23.10	0:23.47	0:23.67	50 FS	0:26.40	0:25.98	24.98
50.10	0:50.99	0:51.82	0:52.25	100 FS	0:57.95	0:57.02	55.70
1:49.55	1:51.85	1:53.67	1:54.62	200 FS	2:05.87	2:03.86	1:59.72
3:51.94	3:56.83	4:00.67	4:02.68	400 FS	4:23.56	4:19.36	4:10.25
				800 FS	8:58.46	8:49.87	8:37.72
15:25.39	15:38.54	15:53.75	16:01.74	1500 FS			
				50 BK			
55.31	0:56.94	0:57.86	0:58.35	100 BK	1:04.69	1:03.65	1:01.41
2:00.89	2:03.20	2:05.20	2:06.25	200 BK	2:17.77	2:15.57	2:12.71
				50 BRS			
1:02.08	1:03.52	1:04.55	1:05.09	100 BRS	1:11.91	1:10.76	1:08.12
2:15.10	2:17.51	2:19.74	2:20.91	200 BRS	2:34.34	2:31.88	2:29.39
				50 BF			
53.26	0:54.62	0:55.50	0:55.97	100 BF	1:01.85	1:00.87	58.48
1:59.02	2:01.57	2:03.54	2:04.57	200 BF	2:15.85	2:13.68	2:09.21
2:03.81	2:05.38	2:07.41	2:08.48	200 IM	2:21.03	2:18.78	2:14.59
4:23.13	4:26.27	4:30.58	4:32.85	400 IM	4:55.95	4:51.23	4:48.04
	850 FDS	810 FDS	790 FDS		810 FDS	850 FDS	

FPS - FINA Point Score





QAS Strength & Conditioning Unit Swimming Core Exercise Progression

	Pł	nase 1 - Flipp	ers	P	hase 2 - Silv	er	ı	Phase 3 - Gol	d
SESSION 1		(Movement) (Movement - Resiste				ted)			
Exercise streams	Small Movements	Small Movements	Small Movements	Small Movements	Large Movements	Multiple Movements	Small Movements (1-2kg Ankle Wgt)	Large Movements (1-2kg Ankle Wgt)	Multiple Movements (1-2kg Ankle Wgt)
Front Bridge	15s	30s	45s	60s	60s	60s	60s	60s	60s
Side Bridge	15s	30s	45s	60s	60s	60s	60s	60s	60s
Back Bridge	15s	30s	45s	60s	60s	60s	60s	60s	60s
Body Awareness Front Back Side Gluteus	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance	Maintenance
Others:	Back Extension emphasis								
SESSION 2		(Static)			(Static)			(Static)	
Exercise streams	Static	Static	Static	Static	Static	Static	Static	Static	Static
Front Bridge	45s	60s	75s	90s	105s	120s	150s	165s	180s
Side Bridge	45s	60s	75s	90s	105s	120s	150s	165s	180s
Back Bridge	45s	60s	75s	90s	105s	120s	150s	165s	180s
Body Awareness Front Back Side Gluteus	Introduction	Intermediate	Intermediate	Advanced	Advanced	Advanced	Maintenance	Maintenance	Maintenance
Others:	Flexion emphasis								
	emphasis								
SESSION 3		(Static - Resiste	d)		(Static - Resisted	d)		(Static - Resisted	n .
Exercise streams	Resisted – 5kg	Resisted – 5kg	Resisted – 5kg	Resisted – 10kg	Resisted – 10kg	Resisted – 10kg	Resisted – 15kg	Resisted – 15kg	Resisted – 15kg
Front Bridge	30s	45s	60s	60s	75s	90s	90s	105s	120s
Side Bridge	30s	45s	60s	60s	75s	90s	90s	105s	120s
Back Bridge	30s	45s	60s	60s	75s	90s	90s	105s	120s
Body Awareness Front Back Side Gluteus	Introduction	Intermediate	Intermediate	Advanced	Advanced	Advanced	Maintenance	Maintenance	Maintenance
Others:	Rotation emphasis								

'Flippers' sample program

Session 1 (Movement)

Exercise Stream	Exercise	Week 1-2	Week 3-4	Week 5-6	Week 7-8
Note: Start with Body aw	vareness				
Back	1a) Spinal shrinking & growing – Knees bent 90°	2x10 (3sec holds)	3x10 (3sec holds)		
Dack	1b) Spinal shrinking & growing – Knees bent 120°			2x10 (3sec holds)	3x10 (3sec holds)
Front	2a) Spinal 'Shrinking' & 'Growing' – Forehead on hand	2x10 (3sec holds)	3x10 (3 sec holds)		
Front	2b) Spinal 'Shrinking' & 'Growing' – Streamline holds			2x10 (3sec holds)	3x10 (3 sec holds)
Gluteus	4a) Clam shells	2x10 each side (3 sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Glutcus	4b) Jane Fonda's	2x10 each side (3sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
	8c) Front Bridge (small movements) – leg up & down	2x15sec each side	3x15sec each side		
Front Bridge	8d) Front Bridge (small movements) – in & out	2x15sec each side	3x15sec each side		
	8e) Front Bridge (small movements) – alphabet			2x30sec each side	3x30sec each side
	8c) Side Bridge (small movements) - leg up & down	2x15sec each side	3x15 each side		
Side Bridge	9d) Side Bridge (small movements) – leg forward & back	2x15sec each side	3x15 each side		
	9e) Side Bridge (small movements)Alphabet			2x30sec each side	3x30sec each side
	10c) Side Bridge (small movements) – leg up & down	2x15sec each side	3x15 each side		
Back Bridge	10d) Side Bridge (small movements) – leg forward & back	2x15sec each side	3x15 each side		
	10e) Side Bridge (small movements) – Alphabet			2x30sec each side	3x30sec each side
Other: Back extension	5d) Stability Ball back extension	2x30sec holds	3x30sec holds		
emphasis	5e) Single leg SB back extension			2x30sec holds	3x30sec holds

'Flippers' sample program

Session 2 (Static)

Exercise Stream	Exercise	Week 1-2	Week 3-4	Week 5-6	Week 7-8
Note: Start with Body aw	vareness				
D 1	1f) Back Banana – Spine Extension	2x10 (3sec holds)	2x12 (3sec holds)		
Back	1g) Back Banana – Spine Extension with knees to chest			2x10 (3sec holds)	2x12 (3sec holds)
Front	2d) Prone hands behind reach back raises	2x10 (5sec holds)	2x12 (5 sec holds)		
2 - 5 - 5	2e) Prone Superman			2x10 (5sec holds)	2x12 (5sec holds)
Side	3a) Side Bridge & Sag	2x10 each side (3 sec holds)	2x12 each side (3sec holds)		
Side	3b) Side Bridge & Sag – Front Crawl recovery swing			3x10 each side (3sec holds)	3x10 each side (3sec holds)
CI. 4	4c) Fire Hydrants	2x10 each side (3sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Gluteus	4d) Hip raises	2x10 each side (3sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Front Bridge	8a) Front Bridge (Static)	2x45sec	2x45sec	3x45sec	3x45sec
Side Bridge	9a) Side Bridge (Static)	45sec each side	2x45sec each side	2x45sec each side	3x45sec each side
Back Bridge	10a Back Bridge (Static)	2x45sec	2x45sec	3x45sec	3x45sec
Other: Flexion	6a) Toe Touches	2x10	2x12	3x10	3x12
emphasis	6d) Stability Ball Jack Knifes	2x10	2x12	3x10	3x12

'Flippers' sample program

Session 3 (Resisted)

Exercise Stream	Exercise	Week 1-2	Week 3-4	Week 5-6	Week 7-8
Note: Start with Body av	vareness				
Back	1a) Spinal shrinking & growing – Knees bent 90°	2x10 (3sec holds)	3x10 (3sec holds)		
Dack	1b) Spinal shrinking & growing – Knees bent 120°			2x10 (3sec holds)	3x10 (3sec holds)
Front	2a) Spinal 'Shrinking' & 'Growing' – Forehead on hand	2x10 (3sec holds)	3x10 (3 sec holds)		
1100	2e) Prone Superman			2x10 (5sec holds)	2x12 (5sec holds)
Side	3a) Side Bridge & Sag	2x10 each side (3 sec holds)	2x12 each side (3sec holds)		
Side	3b) Side Bridge & Sag – Front Crawl recovery swing			3x10 each side (3sec holds)	3x10 each side (3sec holds)
GI .	4a) Clam shells	2x10 each side (3 sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Gluteus	4d) Hip raises	2x10 each side (3sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Front Bridge	8b) Front Bridge (Resisted)	2x30sec@5kg	2x30sec@5kg	3x30sec@5kg	3x30sec@5kg
Side Bridge	9b) Side Bridge (Resisted)	2x30sec@5kg	2x30sec@5kg	3x30sec@5kg	3x30sec@5kg
Back Bridge	10b) Back Bridge (Resisted)	2x30sec@5kg	2x30sec@5kg	3x30sec@5kg	3x30sec@5kg
Other: Rotation	7b) Standing Medicine Ball	2x6 each way (2kgMB – red)	2x8 each way (2kg MB – red)	2x6 each way (3kgMB – red)	2x8 each way (3kg MB – red)
emphasis	7a) Standing Broomstick	2x6 each way	2x8 each way	2x10 each way	2x12 each way

'Silver' sample program

Session 1 (Movement)

Exercise Stream	Exercise	Week 1-2	Week 3-4	Week 5-6	Week 7-8
Note: Start with Body aw	vareness				
Back	1i) Back Banana – arm swings (small movements)	2x10	3x10		
Dack	1j) Back Banana – arm swings (large movements)			2x10	3x10
Front	2c) Fly scapular plane arm swings	2x10	3x10		
Front	2f) Prone streamline			2x10 (5sec holds)	3x10 (5sec holds)
Gluteus	4a) Clam shells	2x10 each side (3 sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Gluteus	4b) Jane Fonda's	2x10 each side (3sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Event Duidge	8h) Front Bridge (Large movements) – Alphabets	2x60sec ½ each leg	3x60sec ½ each leg		
Front Bridge	8i) Front Bridge (Large movements) – leg combinations			2x60sec ½ each leg	3x60sec ½ each leg
Cido Duideo	9h) Side Bridge (Large movements) – Alphabets	2x60sec each side	3x60sec each side		
Side Bridge	9i) Side Bridge (Large movements) – leg combinations			2x60sec each side	3x60sec each side
Dook Duidge	10h) Back Bridge (Large movements) – Alphabets	2x60sec ½ each leg	3x60sec ½ each leg		
Back Bridge	10i) Back Bridge (Large movements) – Leg combinations			2x60sec ½ each leg	3x60sec ½ each leg
Other: Back extension	5b) Back extension	2x10@5kg	2x12@5kg		
emphasis	5c) Single leg back extension			2x10@5kg	2x12@5kg

'Silver' sample program

Session 2 (Static)

Exercise Stream	Exercise	Week 1-2	Week 3-4	Week 5-6	Week 7-8
Note: Start with Body aw	vareness				
D. J.	1f) Back Banana – Spine Extension	2x10 (3sec holds)	2x12 (3sec holds)		
Back	1g) Back Banana – Spine Extension with knees to chest			2x10 (3sec holds)	2x12 (3sec holds)
Front	2d) Prone hands behind reach back raises	2x10 (5sec holds)	2x12 (5 sec holds)		
	2e) Prone Superman			2x10 (5sec holds)	2x12 (5sec holds)
	3a) Side Bridge & Sag	2x10 each side (3 sec holds)	2x12 each side (3sec holds)		
Side	3c) Side Bridge & Sag - Arm swing			3x10 each side	3x10 each side
Clarkon	4c) Fire Hydrants	2x10 each side 2x10 each side (3sec holds) (3sec		3x10 each side (3sec holds)	3x10 each side (3sec holds)
Gluteus	4d) Hip raises	2x10 each side (3sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Front Bridge	8a) Front Bridge (Static)	2x90sec	2x100sec	3x90sec	3x100sec
Side Bridge	9a) Side Bridge (Static)	2x90sec each side	2x100sec each side	3x90sec each side	3x100sec each side
Back Bridge	10a) Back Bridge (Static)	2x90sec	2x100sec	3x90sec	3x100sec
Other: Flexion	6b) High raises	2x10 (5sec holds)	2x12 (5sec holds)	3x10 (5 sec holds)	3x12 (5sec holds)
emphasis	6e) Stability Ball pike ups (knee tucks)	2x10	2x12	3x10	3x12

'Silver' sample program

Session 3 (Resisted)

Exercise Stream	Exercise	Week 1-2	Week 3-4	Week 5-6	Week 7-8
Note: Start with Body aw	vareness				
Back	1d) Spinal shrinking & growing – streamline	2x10 (3sec holds)	3x10 (3sec holds)		
Dack	1c) Spinal shrinking & growing – alternate arm swings			2x10	3x10
Front	2a) Spinal 'Shrinking' & 'Growing' – Forehead on hand	2x10 (3sec holds)	3x10 (3 sec holds)		
riont	2e) Spinal 'Shrinking' & "Growing' – Streamline holds			2x10 (5sec holds)	2x12 (5sec holds)
Side	3a) Side Bridge & Sag	2x10 each side (3 sec holds)	2x12 each side (3sec holds)		
Side	3b) Side Bridge & Sag – Front Crawl recovery swing			3x10 each side (3sec holds)	3x10 each side (3sec holds)
GI 4	4a) Clam shells	2x10 each side (3 sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Gluteus	4d) Hip raises	2x10 each side (3sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Front Bridge	8b) Front Bridge (Resisted)	2x60sec@10g	2x75sec@10kg	2x75sec@10kg	2x90sec@10kg
Side Bridge	9b) Side Bridge (Resisted)	2x60sec@10kg each side	2x75sec@10kg each side	2x75sec@10kg each side	2x90sec@10kg each side
Back Bridge	10b) Back Bridge (Resisted)	2x60sec@10g	2x75sec@10kg	2x75sec@10kg	2x90sec@10kg
Other: Rotation	7b) Standing Medicine Ball	2x6 each way (3kgMB – green)	2x8 each way (3kg MB – green)	2x6 each way (4kgMB)	2x8 each way (4kg MB)
emphasis	7a) Standing Broomstick	2x6 each way	2x8 each way	2x10 each way	2x12 each way

'Gold' sample program

Session 1 (Movement)

Exercise Stream	Exercise	Week 1-2	Week 3-4	Week 5-6	Week 7-8
Note: Start with Body aw					
Back	1i) Back Banana – arm swings (small movements)	2x10	3x10		
Dack	1j) Back Banana – arm swings (large movements)			2x10	3x10
Event	2c) Fly scapular plane arm swings	2x10	3x10		
Front	2f) Prone streamline			2x10 (5sec holds)	3x10 (5sec holds)
Chutous	4a) Clam shells	2x10 each side (3 sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Gluteus	4b) Jane Fonda's	2x10 each side (3sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Fuent Duidge	8h) Front Bridge (Large movements) – Alphabets	2x60sec ½ each leg (1kg ankle weights)	3x60sec ½ each leg (1kg ankle weights)		
Front Bridge	8i) Front Bridge (Large movements) – leg combinations			2x60sec ½ each leg (1kg ankle weights)	3x60sec ½ each leg (1kg ankle weights)
Sido Duidao	9h) Side Bridge (Large movements) – Alphabets	2x60sec each side (1kg ankle weights)	3x60sec each side (1kg ankle weights)		
Side Bridge	9i) Side Bridge (Large movements) – leg combinations			2x60sec each side (1kg ankle weights)	3x60sec each side (1kg ankle weights)
Dook Dwidge	10h) Back Bridge (Large movements) – Alphabets	2x60sec ½ each leg (1kg ankle weights)	3x60sec ½ each leg (1kg ankle weights)		
Back Bridge	10i) Back Bridge (Large movements) – Leg combinations			2x60sec ½ each leg (1kg ankle weights)	3x60sec ½ each leg (1kg ankle weights)
Other: Back extension	5b) Back extension	2x10@10kg	2x12@10kg		
emphasis	5c) Single leg back extension			2x10@10kg each leg	2x12@10kg each leg

'Gold' sample program

Session 2 (Static)

Exercise Stream	Exercise	Week 1-2	Week 3-4	Week 5-6	Week 7-8
Note: Start with Body aw	vareness			-	
D 1	1f) Back Banana – Spine Extension	2x10 (3sec holds)	2x12 (3sec holds)		
Back	1g) Back Banana – Spine Extension with knees to chest			2x10 (3sec holds)	2x12 (3sec holds)
Front	2d) Prone hands behind reach back raises	2x10 (5sec holds)	2x12 (5 sec holds)		
	2e) Prone Superman			2x10 (5sec holds)	2x12 (5sec holds)
	3a) Side Bridge & Sag	2x10 each side (3 sec holds)	2x12 each side (3sec holds)		
Side	3c) Side Bridge & Sag - Arm swing		3x10 each side		3x10 each side
Classes	4c) Fire Hydrants	2x10 each side (3sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Gluteus	4d) Hip raises	2x10 each side (3sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Front Bridge	8a) Front Bridge (Static)	2x150sec	2x165sec	2x165sec	2x180sec
Side Bridge	9a) Side Bridge (Static)	2x150sec each side	2x165sec each side	2x165sec each side	2x180sec each side
Back Bridge	10a) Back Bridge (Static)	2x150sec	2x165sec	2x165sec	2x180sec
Other: Flexion	6b) High raises	2x10 (5sec holds)	2x12 (5sec holds)	3x10 (5 sec holds)	3x12 (5sec holds)
emphasis	6f) Stability Ball pike ups	2x10	2x12	3x10	3x12

'Gold' sample program

Session 3 (Resisted)

Exercise Stream	Exercise	Week 1-2	Week 3-4	Week 5-6	Week 7-8
Note: Start with Body aw					
Back	1d) Spinal shrinking & growing – streamline	2x10 (3sec holds)	3x10 (3sec holds)		
Dack	1c) Spinal shrinking & growing – alternate arm swings			2x10	3x10
Front	2a) Spinal 'Shrinking' & 'Growing' – Forehead on hand	2x10 (3sec holds)	3x10 (3 sec holds)		
Front	2e) Spinal 'Shrinking' & "Growing' – Streamline holds			2x10 (5sec holds)	2x12 (5sec holds)
Side	3a) Side Bridge & Sag	2x10 each side (3 sec holds)	2x12 each side (3sec holds)		
Side	3b) Side Bridge & Sag – Front Crawl recovery swing			3x10 each side (3sec holds)	3x10 each side (3sec holds)
CI 4	4a) Clam shells	2x10 each side (3 sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Gluteus	4d) Hip raises	2x10 each side (3sec holds)	2x10 each side (3sec holds)	3x10 each side (3sec holds)	3x10 each side (3sec holds)
Front Bridge	8b) Front Bridge (Resisted)	2x90sec@15kg	2x105sec@15kg	2x105sec@15kg	2x120sec@15kg
Side Bridge	9b) Side Bridge (Resisted)	2x90sec@15kg each side	2x105sec@15kg each side	2x105sec@15kg each side	2x120sec@15kg each side
Back Bridge	10b) Back Bridge (Resisted)	2x90sec@15kg	2x105sec@15kg	2x105sec@15kg	2x120sec@15kg
Other: Rotation	7b) Standing Medicine Ball	2x6 each way (3kgMB – green)	2x8 each way (3kg MB – green)	2x6 each way (4kgMB)	2x8 each way (4kg MB)
emphasis	7a) Standing Broomstick	2x6 each way	2x8 each way	2x10 each way	2x12 each way

Swimming Core Exercises

Exercise Stream	Exercise Name		Key Coaching Cues	Sets x Reps
	1a) Spinal 'Shrinking' & 'Growing' – Knees bent 90° 'Shrinking' 'Growing'		Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly	2-3 x 5-10 Shrinking 2-3 sec holds Growing 2-3 sec holds Smooth controlled transitions
Body Awareness (BACK)	1b) Spinal 'Shrinking' & 'Growing' – Knees bent 120° 'Shrinking' 'Growing'	-	Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly	2-3 x 5-10 Shrinking 2-3 sec holds Growing 2-3 sec holds Smooth controlled transitions
	1c) Spinal 'Shrinking' & 'Growing' – Legs straight 'Shrinking' 'Growing'		Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly	2-3 x 5-10 Shrinking 2-3 sec holds Growing 2-3 sec holds Smooth controlled transitions

Exercise Stream	Exercise Name	Key Coaching Cues	Sets x Reps
	1d) Spinal 'Shrinking' & 'Growing' – Streamline 'Shrinking' 'Growing'	 Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly 	2-3 x 5-10 Shrinking 2-3 sec holds Growing 2-3 sec holds Smooth controlled transitions
Body Awareness (BACK)	1e) Spinal 'Shrinking' & 'Growing' – Alternate arm swing 'Shrinking' 'Growing' 'Alternate'	 Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly 	2-3 x 5-10 for each arm swing Growing Hold for duration of arm swings Smooth controlled alternate arm transitions Add drink bottle in one hand, once proficient

Exercise Stream	Exercise Name	Key Coaching Cues	Sets x Reps
Stream	1f) Back Banana – Spine Extension 'Start'	 Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly Roll spine up from floor 	2-3 x 5-10 Smooth controlled transitions
Body Awareness (BACK)	'Extension' 1g) Back Banana – Spine Extension with knees to chest 'Start' 'Extension'	 Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly Roll spine up from floor Use lower abdominal to lift legs 	2-3 x 5-10 Smooth controlled transitions
	1h) Back Banana – Spine Extension with Knee extension 'Start' 'Extension'	 Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly Roll spine up from floor Use lower abdominal to lift legs Point toes 	2-3 x 5-10 Smooth controlled transitions

Exercise Stream	Exercise Name		Key Coaching Cues	Sets x Reps
	1i) Back Banana – arm swings (small movements) 'Start'		Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly	2-3 x 5-10 for each arm swing Smooth controlled alternate arm transitions
	'Extension'			Add drink bottle in one hand, once proficient
ness (BACK)	'Alternate'	_	Ilina & Laga ralayad	2.2 v. 5.10 for each
Body Awareness (BACK)	1j) Back Banana – arms swings (large movements)		Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly	2-3 x 5-10 for each arm swing Smooth controlled alternate arm transitions
	'Growing'			Add drink bottle in one hand, once proficient
	'Alternate'			

Exercise Stream	Exercise Name	Key Coaching Cues	Sets x Reps
	2a) Spinal 'Shrinking' & 'Growing' – Forehead on hand 'Shrinking' 'Growing'	 Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly Sternum to floor	2-3 x 5-10 Shrinking 2-3 sec holds Growing 2-3 sec holds Smooth controlled transitions
Body Awareness (FRONT)	2b) Spinal 'Shrinking' & 'Growing' – Streamline holds 'Shrinking' 'Growing'	 Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly Sternum to floor Set scapular	2-3 x 5-10 Shrinking 2-3 sec holds Growing 2-3 sec holds Smooth controlled transitions
	2c) Fly scapular plane arm swings 'Shrinking' 'Growing'	 Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly Sternum to floor Set scapular Streamline finish	2-3 x 5-10 Growing Hold for duration of arm swings Smooth controlled transitions

Exercise Stream	Exercise Name	Key Coaching Cues	Sets x Reps
Stream	2d) Prone Hands behind reach back raises 'Growing' 'Raises'	 Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly Set scapular Pull arms to feet 	2-3 x 5-10 Growing 2-3 sec holds Raises 5 sec holds Smooth controlled transitions
Body Awareness (FRONT)	2e) Prone superman 'Shrinking' 'Growing'	 Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly Sternum to floor Set scapular 	2-3 x 5-10 Shrinking 2-3 sec holds Raises 5 sec holds Smooth controlled transitions
	2f) Prone streamline 'Shrinking' 'Growing'	 Hips & Legs relaxed Grow Spine by; Belly button to Spine Neck long Breath through belly Sternum to floor Set scapular Hands together 	2-3 x 5-10 Shrinking 2-3 sec holds Raises 5 sec holds Smooth controlled transitions

Exercise Stream	Exercise Name	Key Coaching Cues Sets x Reps
Sucam	3a) Side Bridge and sag 'Sag' 'Side Bridge'	 Muscles relaxed Bridge from hips to armpits Breath through belly Sag 2-3 x 5-10 Sag 2-3 sec holds Bridging 2-3 sec holds Smooth controlled transitions
Body Awareness (SIDE)	3b) Side Bridge and sag – Front crawl recovery swing 'Side Bridge' 'recovery swing'	 Muscles relaxed Bridge from hips to armpits Breath through belly Rotate belly of bicep to the ceiling Smooth controlled transitions
	3c) Side Bridge and sag – Arm Swing 'Side Bridge' 'Arm swing'	 Muscles relaxed Bridge from hips to armpits Breath through belly Rotate belly of bicep to the ceiling Extend arm forward of body Z-3 x 5-10 Bridging Reset for each repetition Smooth controlled transitions

Exercise Stream	Exercise Name	Key Coaching Cues	Sets x Reps
Steam	4a) Clam shells 'Start/Finish'	 Activate movement with gluteus Hand on gluteus – biofeedback Control speed/tempo up and down (2-2-2) 	2-3 x 5-10 Smooth controlled transitions
Body Awareness (Gluteus)	'Mid-point'		
Body Awar	4b) Jane Fonda's 'Start/Finish'	 Activate movement with gluteus Hand on gluteus - biofeedback Control speed/tempo up and down (2-2-2) 	2-3 x 5-10 Smooth controlled transitions
	'Mid-Point'		

Exercise Stream	Exercise Name	Key Coaching Cues	Sets x Reps
	4c) Fire Hydrants 'Start/Finish'	 Activate movement with gluteus Control speed/tempo up and down (2-2-2) Minimal lower back movement (place broomstick on back for Bio-feedback) 	2-3 x 5-10 Smooth controlled transitions
iess (Gluteus)	'Mid-point'		
Body Awareness (Gluteus)	4d) Heel Raise 'Start/Finish'	 Spinal 'grow' position Activate movement with gluteus Control speed/tempo up and down (2-2-2) Minimal lower back movement (place broomstick on back for bio-feedback 	2-3 x 5-10 Smooth controlled transitions
	'Mid-Point'		

Exercise Stream	Exercise Name	Key Coaching Cues Sets x Reps
	5a) Isometric Back Extension	 Aim for Spinal grow position Breath through belly Top of hip bone over edge 30sec-120sec
Other (Back Extension)	'Start/Finish' 'Mid-point'	 Aim for Spinal grow position Breath through belly Top of hip bone over edge Activate gluteus 2-3 x 5-10 Smooth controlled transitions
0	'Start/Finish' 'Mid-Point'	 Aim for Spinal grow position Breath through belly Top of hip bone over edge Activate gluteus Back level Smooth controlled transitions

Exercise Stream	Exercise Name	Key Coaching Cues	Sets x Reps
tension)	5d) Stability ball back extension	 Aim for Spinal grow position Breath through belly balance 	2-3 sets 30sec-120sec
Other (Back Extension)	5e) Single Leg stability ball back extension	 Aim for Spinal grow position Breath through belly Balance Keep back straight Hips level 	2-3 sets 30sec-120sec

Exercise	Exercise Name		Key Coaching Cues	Sets x Reps
Stream	6a) Toe Touches 'Start/Finish'		Aim for Spinal grow position Breath through belly Smoothly squeeze up and touch toes	2-3 x 5-10 Smooth controlled transitions
(xion)	'Mid-Point'			
Other (Trunk Flexion)	6b) High Raises 'Start/Finish'	:	Breath through belly Smoothly squeeze leg up Reach up as high as possible	2-3 x 5-10 5sec holds at top Smooth controlled transitions
	'Transition'			
	'Mid-point'			

Exercise Stream	Exercise Name		Key Coaching Cues	Sets x Reps
	6c) Pike ups 'Start'	-	Spinal grow position Breath through belly	2-3 x 5-10 Smooth controlled transitions
on)	'Transition'			
Other (Trunk Flexion)	'Mid-point'			
Oth	6d) Stability ball jack knifes "Start/Finish"	•	Spinal grow position Breath through belly Scapula stability Keep back straight	2-3 x 5-10 Smooth controlled transitions
	'Mid-point'			

Exercise	Exercise Name		Key Coaching Cues	Sets x Reps
Stream	6e) Stability ball pike ups (knee tucks) 'Start/Finish'	• • •	Spinal grow position Breath through belly Scapula stability	2-3 x 5-10 Mid point Pause for 1-2 sec Smooth controlled transitions
kion)	'Mid-point'			
Other (Trunk Flexion)	6f) Stability ball pick ups 'Start/Finish'		Spinal grow position Breath through belly Scapula set Initiate movement from Lats	2-3 x 5-10 Mid point Pause for 1-2 sec Smooth controlled transitions
	'Transition'			
	'Mid-point'			

Exercise Stream	Exercise Name	Key Coaching Cues	Sets x Reps
	7a) Standing Broomstick "Start/Finish"	 Spinal grow position Breath through belly Hold Scapula set 	2-3 x 5-10 Smooth controlled transitions
Other (Trunk Rotation)	Mid-point'		
Other (Tru	7b) Medicine Ball rotations 'Start/Finish'	 Spinal grow position Breath through belly Hold Scapula set 	2-3 x 5-10 Smooth controlled transitions
	'Mid-point'		

Exercise Stream	Exercise Name	Key Coaching Cues	Sets x Reps
	8a) Front Bridge (Static)	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows	2-3 sets 30sec-120sec
Front Bridge	8b) Front Bridge (Resisted)	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows	2-3 sets 30sec-120sec
Froi	8c) Front Bridge (small movements) – leg up & down 'Start/Finish'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows	2-3 sets 30sec-120sec
	'Mid-Point'		

Exercise Stream	Exercise Name	Key Coaching Cues	Sets x Reps
	8d) Front Bridge (small movements) leg in & out 'Start/Finish' 'Mid-point'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows 	2-3 sets 30sec-120sec
Front Bridge	8e) Front Bridge (small movements) Alphabets 'Start/Finish' 'Mid-point'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows 	2-3 sets 30sec-120sec
	8f) Front Bridge (large movements) – leg up & down 'Mid-Point'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows 	2-3 sets 30sec-120sec

Exercise Stream	Exercise Name	Key Coaching Cues	Sets x Reps
	8g) Front Bridge (large movements) leg in & out 'Mid-point'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows 	2-3 sets 30sec-120sec
	8h) Front Bridge (large movements) Alphabets 'Example 1'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows 	2-3 sets 30sec-120sec
Front Bridge	'Example 2'		
	8i) Front Bridge (Multiple movements) – leg combinations 'Example 1'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows 	2-3 sets 30sec-120sec
	'Example 2'		

Exercise Stream	Exercise Name	Key Coaching Cues	Sets x Reps
	9a) Side Bridge (Static)	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows 	2-3 sets 30sec-120sec
Side Bridge	9b) Side Bridge (Resisted)	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows 	2-3 sets 30sec-120sec
Side	9c) Side Bridge (small movements) – leg up & down 'Start/Finish'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows 	2-3 sets 30sec-120sec
	'Mid-Point'		

Exercise Stream	Exercise Name		Key Coaching Cues	Sets x Reps
	9d) Side Bridge (small movements) leg forward & back 'Forward'	•	Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows	2-3 sets 30sec-120sec
	'Backward'			
Side Bridge	9e) Side Bridge (small movements) Alphabets 'Example 1'	•	Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows	2-3 sets 30sec-120sec
	'Example 2'			
	9f) Side Bridge (large movements) – leg up & down 'Mid-Point'	•	Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows	2-3 sets 30sec-120sec

Exercise Stream	Exercise Name	Key Coaching Cues	Sets x Reps
	9g) Side Bridge (large movements) leg forward & back 'Forward' 'Backward'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows 	2-3 sets 30sec-120sec
Side Bridge	9h) Side Bridge (large movements) Alphabets 'Example 1'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows 	2-3 sets 30sec-120sec
	9i) Side Bridge (Multiple movements) – leg combinations 'Example 1' 'Example 2'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows 	2-3 sets 30sec-120sec

Exercise Stream	Exercise Name	Key Coaching Cues Sets x Reps
	10a) Back Bridge (Static)	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows
Back Bridge	10b) Back Bridge (Resisted)	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows
Back	10c) Back Bridge (small movements) – leg up & down	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows
	'Down'	

Exercise Stream	Exercise Name	Key Coaching Cues Sets x Reps
	10d) Back Bridge (small movements) leg in & out 'In' 'Out'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows
Back Bridge	10e) Back Bridge (small movements) Alphabets 'Example 1'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows
	10f) Back Bridge (large movements) – leg up & down	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows
	'Down'	

Exercise Stream	Exercise Name	Key Coaching Cues Sets x Reps
	10g) Back Bridge (large movements) leg in & out 'In' 'Out'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows
Back Bridge	10h) Back Bridge (large movements) Alphabets 'Example 1'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows
	10i) Back Bridge (Multiple movements) – leg combinations 'Example 1'	 Aim for Spinal grow position Breath through belly Belly to spine Shoulders over elbows
	'Example 2'	