## **Snowboard Training System**

## **Development Phases Domain**

	Phase	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6		
	Biological Age	Early Childhood	Late Childhood	Pre-puberty before growth spurt	Puberty and growth spurt	Post Puberty after Growth Spurt	Full Maturation		
	Chronologial Age	2-6 years old	6-10 years old	Girls: 9-13 Boys: 10-14	Girls: 11-15 Boys: 12-16	Girls: 12-17 Boys: 14-18	Girls: 16+ Boys: 17+		
	Time in Sport	1-4 years in sport	2-5 years in sport	4-7 years in sport	5-8 years in sport	6-11 years in sport	10-15+ years in sport		
	Training Volume	50 hours per season; 1-2 sessions per week	150 hrs/season; 2-3 sessions per week	220 hours/season; 3-5 sessions per week	360 hours/season; 4-6 sessions per week	460 hours/season; 5-7 sessions per week	500 hours/season; 5-7 sessions per week		
	Summer/Off season Training	None	0-5 days	10 days	20 days	25 days	30+ days		
	Coached Freesriding	75%	60%	40%	30%	20%	15%		
Elements	Coached Drills	10%	20%	20%	20%	20%	15%		
	Coached Venue Training	10%	20%	30%	35%	40%	45%		
	Full Run Competition Simulation	5%	5%	10%	15%	20%	25%		
	Freeride with friends and family	As much as enjoyable	As much as enjoyable	As much as enjoyable	As much as enjoyable while balancing rest, travel and recovery needs.	As much as enjoyable while balancing rest, travel and recovery needs.	As much as enjoyable with necessary balance of rest, travel and recovery needs.		
	Complementary Sports	activities. Explore individual coordination or balance-based sports. Team sports to build	Play many sports. Active participation in coordination or balance-based sports. Participation in team sports build teamwork, ethics and fair play.	Continue to participate in many activities and sports. Begin to identify with primary vs. complementary sports.	Continue to participate in complementary sports while identifying clear goals in primary sport.	Use complementary sports and activities for variety and to enhance aerobic conditioning by increasing training volume in all activities.	Use complementary sports and activities for injury prevention, avoiding burnout, and to maintain all aspects of physical fitness.		
	Physical Fitness Domain								
	General Concepts	movement skills through play, fun,	Increase play to enhance specific elements of physical fitness in open environments.	Start to incorporate focused dryland training 1-2 days per week. Enhance body awareness, balance, and spatial anticipation through games and drills.	Physical fitness is becoming an integral part of the season. 1-3 sessions per week. Increase hours of training with varied volumes and intensity.	with varying volumes and	Year-round, periodized training plans with varying volumes and intensity are essential to prepare for full competition and training loads.		

	(Body Composition)	like proportions in terms of how various body parts relate to each other. Muscle mass increases,	Body finishes developing into adult-like proportions. Rate of growth slows, strength increases and ability to perform fine motor skills increases.	Rate of growth increases again in preparation for adolescence. Weight and height increases. Shoulders broaden in males and hips widen in females.	adult heights, muscles grow rapidly while muscle to fat ratios differ between males and females. Heart rate and respiratory capacity increases leading to	Bodies are adult in proportion and muscle to fat ratios. Very little change in height from this point	Body finishes adolescent growth and development.
	Endurance	established through sustained activity and play.	of endurance through sustained	Develop aerobic conditioning with scheduled activities along with increased time spent in games and training	activities such as running, swimming, biking or hiking are incorporated into the training	inverse relationship between	Develop and/or maintain appropriate energy systems for success in discipline.
	Mobility	use a variety of body movements.	Introduce and practice mobility exercises through unorganized play and some structured activities.	Introduce range of motion, mobility drills, general exercise preparation and coordination through semi structured play.	training. Limit the loss of mobility, functional strength, balance and	Practice a variety of core stability exercises. Incorporate mobility training specific to the sport or discipline.	Incorporate varied and sport- specific core stability exercises.
Elements		which encourage range-of-motion and exploration of movement	Continue with whole body activities and exercises. Introduce more targeted focus on specific body movements.	Implement structured body weight exercises with proper technique to develop overall strength.	movement, mobility, warm up and mechanics. Short duration (20 min) in structured strength and power movements. Light	Practice safety and competence with free weight techniques. As technique is mastered, increase external loads with focus on whole body movements while addressing any imbalances.	Master Olympic lifts and supplemental lifting exercises. Utilize eccentric training for overload.
	Power	running, jumping and throwing.	Use fun playful activities to enhance body awareness, spatial awareness and object manipulation. Incorporate activities that develop quickness (0-10 sec bursts).	Appropriate volume and intensity of body-weight training. Use dynamic vertical exercises such as hopping, skipping and jumping to enhance power movements.	with no weight. Target all major muscle groups with body weight exercises. Add light weights for biologically advanced athletes. Continue jumping exercises and	the state of the s	

	Motor Skills  Nutrition, Hydration, Recovery	Create a foundation for agility, balance and coordination (ABC) through participation in multiple sports or physical activities.  Well rounded nutrition is practiced by parents, child, coaches and club. Proper rest and sleep habits help with recovery and energy management.	Increase ABC through fluidity of movement and range-of-motion in simple activities.  Basic athletic and healthy nutrition concepts are addressed by parents, child, coaches and club.	movements that increase ABC and range of motion across all planes of movement. Begin to use focused exercises to target specific movements.  Athlete awareness increases about importance of nutrition. Healthy sleep habits becomes a component of training and physical fitness.	coordination during growth spurt. Use mobility training along with	more complicated ABC drills to enhance range of motion that target sport specific movements patterns.  Implement plans for a balanced diet to enhance performance. Keep a logbook of all training related activities such as hydration, diet, rest, recovery, sleep, and other factors that	Increase difficulty of balance drills for precision of motor control. Increase flexibility exercises consistent with specific demands of the sport.  Athlete uses diet planning to maximize training and recovery. Utilize physiologic measures and logbook diary to monitor training. Respects supplement limitations and consequences of illegal drug violations.
			Ted	chnical Domain			
	General Focus	Active start - Learning and fun environments	Adventure stage - Riding all terrain, exploring the mountain	Technical stage - Developing precision of basic skills while learning advanced techniques over a variety of terrain and features	Tactical stage - Application of technical skills to Event/Discipline specific tactics.	9	Mastery and Innovation stage - Event/Discilpine specific technical and tactical mastery
	Skill Development	Learn to snowboard. Focus on basic movements and foundation skills.	Riders are learning basic turn shapes and riding styles. Through effective stance and efficient movements, they are learning to control the board to perform a variety of fundamental tasks in a variety of terrain.	different turn shapes, board performance and movement	Maintain technical skills through the growth spurt and refine tactical skills. Begin to feel the subtle differences between different board performance concepts and how it affects the skill, trick or technique they are mastering.	growth spurt. Integrate the increased strength, power and	Masters discipline specific skills. Optimizes technical skills for abilitymaximum performance in competition situations.
	Turn Shape and Technique	Linked skidded turns on beginner or intermediate terrain. Learning basic carving movements and exploring variety of turning techniques.	, ,	Riders are learning to apply different turn shapes, board performance and movement patterns to a variety of terrain. Can carve turns on a variety of terrain with a variety of turn shapes.	Riders can confidently adapt turn shape and technique in rapid sequences in order to achive mutliple tasks on any terrain.		Can ride anything, anywhere in any any condition with confidence, speed and style.
Flomonts	Athletic Stance and Balance	Learn fundamentals of stance and balance on a snowboard.	Mastery and confidence in fundamental stance and balance on the snowboard.	balance and stability to match	Ability to dynamically adjust balance and stability with precision and coordination.		

Lielliellis	Alignment and Separation	Learn effective body alignment in	Mastery of effective body	Develop ability to separate	Ability to use a variety of high	The rider is using seperation of	Able to link complex chains of
	of Movements		alignment on the snowboard in a	movements of upper and lower	, , ,	• •	movement together in a smooth
		terrain.	variety of terrain.	body.	performance in competitive	and aspects to create complex	and fluid manner with exact
					venues, significant use of upper-	chains of movements.	precision.
					lower body seperation.		
	Potary Edging and Prossure	Gain comfort with basic skidded	Riders are combining	Sound fundamental skills are	Ability to ride flat base at high	Ability to ride flat base at high	Exact and precise rotary,edging
			fundamentals of rotary, edging	mastered and integrated in the	speeds. Can ride switch		and pressure movements are
		5 5	and pressure to achieve a variety	<u> </u>			utilized in complex chains of
			of turn shapes and techniques to	intensity and complex movement	precise movements. Able to adapt		movements to accomplish a
		periods of time.	match their task and terrain	patterns are emphasized to	and refine pressure movements	the mountain. Switch riding is as	variety of task, tricks or skills.
			choices.	achieve a desired outcome on		effortless as regular. Exact	These movements are ingrained,
				specific terrain.	effectiveness and fluidity in all	precision of pressure and edge	habitually and occur
					terrain.	movements is mastered.	automatically.
	Terrain Parks and Features	Starting to catch air on small,	Riders are getting comfortable	Riders should be competent on	Riders should be comfortable	Full HP and SS runs with speed,	Riders are pushing the envelope of
	remain ranks and readures		grabbing over small jumps and	small to medium jumps, basic	spinning over large jumps as well	confidence, amplitude and style.	what they are capable of. They
		· ·	exploring small rotations 180 to	grabs, ability to ride comfortably		Creativity in trick selection and	have a deep and automatic
		rotations and variable pressure on		in halfpipe and rail features.		flow. Beginning to experiment	understanding of the cause and
		the board.	Riders begin to explore simple rail		inverted manuevers and should be	with double cork and multiple,	effect of various movements and
			features.		able to handle the more technical	linked rotations beyond 900 (HP)	can link together complex runs at
					rail features with confidence.		the highest level of dififculty with
							the highest level of precision.
			Та	ctical Domain			
	General Focus	Have fun with snowboarding and	Tactics are learned through self-	Gaining comfort in applying	High intensity and more complex	Refine event specific technical and	Mastery of tactical strategies
		· ·	discovery by riding around the	various tactics in order to ride	movement patterns are mastered.	tactical skills to achieve desired	based on the individual's style,
		_	mountain and adapting to	terrain using different strategies		outcome. Integrate the increased	discipline and goals.
			different terrain.Respects and	to achieve differing results.	·	strength, power and body size to	
		-	rides challenging terrain or difficult snow conditions.		achieve a desired outcome on specific terrain and features.	achieve more complex movements and precision of skill	
		etiquette around the mountain.	difficult show conditions.		specific terrain and features.	application.	
	Terrain	•	Explores the mountain	Confident on most terrain and	Confidence on the mountain.	Innovation on the mountain.	Complete mastery of all
		confidence on variety of groomed	_		Ability to ride anywhere in any	Ability to ride anywhere, anytime	environments. Ability to ride
		runs. Starting to catch air on small,		jumps, rails and the halfpipe.		in any condition using the whole	anywhere with creativity and
		natural features.	variety of tasks all over the		speed.	terrain with speed, style and	innovate on the fly.
			mountain and in the park.			creativity.	

terrain pitches using effective stance and balance.  blaffpipe. Learning straight airs above the lip of the pipe and basic spins below the lip.  blaffpipe. Learning straight airs above the lip of the pipe and basic spins below the lip.  blaffpipe. Learning straight airs above the lip of the pipe and basic spins at the lip. Using effective pressure control to pump transition to maintain speed throughout the pipe.  blaffpipe. Learning straight airs above the lip of the pipe and basic spins at the lip. Using effective pressure control to pump transition to maintain speed throughout the pipe.  blaffpipe. Learning straight airs above the lip of the pipe and rotate in multiple directions beyond 360.  blaffpipe. Learning straight airs above the lip of the pipe and rotate in multiple directions beyond 360.  blaffpipe. Learning straight airs above the lip of the pipe and rotate in multiple directions beyond 360.  blaffpipe. Learning straight airs above the lip of the pipe and rotate in multiple directions beyond 360.  blaffpipe. Learning straight airs above the lip of the pipe and rotate in multiple directions beyond 360.  blaffpipe. Learning straight airs above the lip of the pipe and rotate in multiple directions beyond 360.  blaffpipe. Learning to spin out of the pipe and rotate in multiple directions beyond 360.  blaffpipe. Linking tricks together regular and switch while pipe. Linking tricks together regular and switch while beginning to incorporate inverted movements in to the HP routine.  blaffpipe. Learning to spin beyond 360.  blaffpipe. Learning to spin beyond 360.  b		Halfpipe	Ability to adapt to changing	Learning to ride transition by	Gaining confidence in the	Dynamic dron-instactive numning	Dynamic drop ins with speed and	Full pipe runs with maximum			
stance and balance.  If control edge control to make the lip of the pipe and base effective edge control to magnificate. Reaching the lip of pipe with straight airs and basic spins below the lip.  Stopestyle  Stopestyle  Reginning to catch air on nutural reductives and perform some simple and greathing over straight and swall perform some simple and greathing over straight and swall represent throughout the pipe.  Stopestyle  Reginning to catch air on nutural reductives and perform some simple greathing owner small jumps and trained and swall represents. Training magnetic straining the specific boards. Ability to the first purpose or rail.  SBIX  Reginning to red with confidence and any on smaller jumps or rail.  SBIX  Reginning to ride with confidence and any on smaller jumps or rail.  Returns and perform some simple the polyment of the simple and base designed in the result of the specific boards. Ability to make the specific boards and basicists both results are required and which the specific boards and basicists being the specific boards.  SBIX  Reginning to ride with confidence and any on smaller jumps or rail.  Returns.  SBIX  Reginning to ride with confidence and any on smaller jumps or rail.  Returns.  Returns.  Returns are described by follow a race success by sainy a variety of movements and skills. Reting and confidence and any on the mountain.  Returns.  Alpine  Competition Planning  None at this time.  Firstly level competitions designed to rewards and simple and confidence glisting on fast terrain around the mountain.  Beards  Choose based on height, weight and skill level.  Choose based on height, weight and sk		папріре			· ·	· · · · · · · · · · · · · · · · · · ·					
Slopestyle    Slopestyle   Reginning to catch air on natural parameters between the composition of the lip. Using effective present control to guing in multiple decisions beyond 30.    Slopestyle   Reginning to catch air on natural parameters personal profession of the lip. Using the large in multiple decisions between the lip. Using effective present control to guing in motivation to maintain speed at most on maintain speed the properties in the lip. Using effective present control to guing in motivation to maintain speed and profession and performs some simple flatgeround tricks such as olles, but flort side and backside between the large over small guing and southern speed to the properties in the properties of the prop						,		· · · · · · · · · · · · · · · · · · ·			
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Elements	Boots	Proper boot fit and flex to	Proper boot fit and flex to	Proper boot fit, flex and	Proper boot fit, flex and	Discipline specific boot to	Discipline specific boot to
-Liements		· ·	facilitate a balanced, athletic	performance.	performance. Begin to test	maximize performance.	maximize performance.
		stance.	stance.	periorinance.	discipline specific boots.	maximize periormander	maximize periormanee.
	Protection		Helmets required at all times.	Helmets required at all times.	Helmet required; back protection,	Helmet required; back protection,	Helmet required; back protection,
		·			impact shorts, and mouth guard	impact shorts, and mouth guard	impact shorts, and mouth guard
					recommended.	recommended.	recommended.
			Menta	al Training Dom	ain		
			Wichte	i ITalling Dolling	uiii		
	Environment and	Foster an environment that	Continued cultivation of a fun	Coach-athlete relationships, based	Identify relevant factors from prior	Reinforce the idea that hard work	All of the aforementioned
	Motivation	promotes enjoyment amongst the	environment to allow participants	on trust and respect, are built	successful performance. Athletes	creates more opportunity for	strategies need to continue to play
		participants. Provide participants	to continue to experience success.	through effective communication	create a detailed list of what they	success. Accountability is	a role at this level. Athletes
		opportunities to experience	Coach acts as a mature role model	before, during and after practice.	do prior to the competition from a	important. Self-analysis and the	continue to have opportunities to
		success with even the most	in order to build long-term coach-	Consistency in talk and behavior is	physical, mental, and	acceptance of feedback is	experience success and the coach-
		fundamental of tasks and	athlete relationships through	key to developing a trusting	environmental aspect. Athlete	encouraged. Athletes analyze	athlete relationship is built on a
		positively reinforce these	mutual trust and respect.	relationship.	focuses on what they can and	their own performance and	mutual trust and respect. The
		behaviors. Participants to begin to			can't control. During practice	identify areas for improvement.	coach-athlete relationship
		develop fundamental skills,			sessions, the athlete follows the	Enforce the concept that success	develops into a collaborative
		confidence to inspire passion for			same pre-competition routine.	is attributable to personal effort.	partnership with the athlete "self-
		the sport.					coaching" and sharing feedback
							with coaches.
	Positive Self Talk and	Reinforce the skills learned in the	Basic strategies of mental skills	Develop positive self talk, work	Promote consistent use of self-talk	Develop race day routines and	Athletes refine their use of
	Mental Imagery	practice session by making a game	-		and imagery in training and	practice with distractions present	positive self-talk and imagery.
	0 ,		Use simple self-talk cue words to	the process, not results.	· · · · · · · · · · · · · · · · · · ·	to simulate the competitive	Work towards mastery of more
		session with successful completion		Implement imagery into sessions	athletes with more competition-	experience. Introduce relaxation	complicated techniques. Practice
		·	Have participants repeat the	by performing a skill correctly and	· · · · · · · · · · · · · · · · · · ·	techniques to control competitive	· · · · · · · · · · · · · · · · · · ·
		, ,	words to reinforce the importance	, , ,	opportunities for athletes to	anxiety. Teach athletes to	athletes. Identify the ideal
			of certain skills or concepts.	seeing themselves perform the	experience success.		performance state and implement
		and chimicol interest in the sport.	or contain similar or consecution	skill correctly	experience success:	event day routines. Discuss	strategies to achieve this state
				Jan Correctly		progressive relaxation and	consistently. Work towards
						imagery techniques. Help the	mastery of all aspects of preparing
						athlete understand the source of	mentally for competition.
						any anxiety. Creating positive self-	mentally for competition.
Elements						talk is critical.	
						taik is Citucai.	

			should be skill, process or task based. Focus on the love of the	. , ,	primarily focused on process and	long-term performance plans and introduce outcome goals to motivate the athlete. Challenge athletes in training while providing opportunities for success. Encourage self-evaluation and logging of training. The athlete	Encourage the opportunity to overcome challenges and view them as opportunities for improvement. Viewing challenges as opportunities for improvement changes the focus from a negative (anxious) one to a positive (excited) one. Continue to help the athlete focus on what works specifically for them.
	Social Grouping	Group kids by peer groups.	Group kids by peer groups. Appropriately introduce challenges for kids skiing beyond peer group.	assigning groups. Begin incorporating some opportunities for exposure to ability and	Group athletes by peer groups by biological and training ages. Incorporate more opportunities for challenge and exposure to ability and developmentally appropriate groups.	Group athletes by ability, relative development and goals in sport while maintaining appropriate social bonds.	Group athletes with competitive peers. Foster a team dynamic of support, encouragement and positive pushing amongst teammates.
			Com	petition Domai	n		
	Focus	Love the Sport for Fun	Compete for fun	Compete for skill development	Compete for skill acquisition	Compete for skill mastery	Compete to Win
	Number of competitions		1 or 2 local events	4-8 events per season	6-12 events per season	8-15 events per season.	10-16 events per season.
Elements	Events		Fun local or club based competitions that emphasize skill progression.		USASA Regional and Nationals. Potential for USSA Revolution Tour.	USASA Regional and Nationals, USSA Revolution Tour, FIS races for SBX/Alpine at age 15.	USSA Grand Prix, FIS NorAm and World Cup, Other pro level invite events (US Open, Dew Tour, etc.)
	Organizations			USASA	USASA, USSA, WST	USASA, USSA, WST, FIS	USSA, WST, FIS
	Disciplines			Experiment with all disciplines	Compete in many disciplines	Begin to specialize	Specialization