SINGAPORE PHYSICAL ACTIVITY GUIDELINES FOR SCHOOL CHILDREN & YOUTHS (7 - 17 YEARS)

School children and youths can engage in physical activity through many different settings and not only through recreation and leisure, such as home, in school, and in community settings. They should meet all recommendations for physical activity, sedentary behaviour and sleep habits to reap health benefits associated with regular physical activity and reduced sedentary behaviour.



MOVE WITH PLAY & GROW



RECOMMENDATIONS

PLAY FOR 60 & MIX IT UP / Physical Activity

Accumulate an average of **60 minutes in** moderate- to vigorous-intensity aerobic activity per day across the week.

*Every minute of vigorous-intensity activity can generally be considered as two minutes' worth of moderate-intensity activity.

A variety of **vigorous-intensity aerobic** activities, muscle- and bone-strengthening exercises should be incorporated at least 3 days a week to promote the development of movement skills.



PLAY MORE / Sedentary Behaviour

Limit the amount of time spent being sedentary, particularly recreational screen time, by engaging in activities of any intensity, including those of light-intensity.



7-13 years: **9 to 12 hours** 14-17 years: **8 to 10 hours**

TIPS



Incorporate active travel into the weekly routine, such as walking or cycling to school.

Visit outdoor playgrounds for your child to

engage in social play and interact with others



Explore a variety of activities to help school children and youths develop active hobbies or interests.



Stand up while studying or take movement breaks in between study sessions.



Consider joining a sports team/club/organisation to experience physical activity in a social setting, which helps school children and youths stay motivated.



EXERCISE INTENSITY

while being active.



Light Can talk in full sentences and sing



Moderate Can talk in phrases or short sentences but cannot sing



Vigorous Have difficulty talking

GUIDELINES BY SUB-POPULATION: PRESCHOOL, SCHOOL CHILDREN & YOUTHS

UPDATES IN THE SINGAPORE PHYSICAL ACTIVITY GUIDELINES (SPAG) PRESCHOOL (0 - 6 YEARS)

Previous (2013)	What's New	
Limit sedentary entertainment screen time to 2 hours.	Sedentary time limit revised to a maximum of 1 hour.	
Engage in physical activity for 180 minutes daily regardless of age. Sleep recommendations not included.	Activity recommendations broken into 3 further sub-groups to reflect different developmental needs as preschool children grow. Introduction of sleep time recommendations.	

UPDATES IN THE SINGAPORE PHYSICAL ACTIVITY GUIDELINES (SPAG) SCHOOL CHILDREN ADN YOUTHS (7 - 17 YEARS)

Previous (2013)	What's New
Limit sedentary entertainment screen time to 2 hours. Break up sedentary periods of 90+ minutes with 5-10 minutes of physical activity.	Removed time-specific recommendations.
Engage in physical activity for 60 minutes daily. Minimum bouts of 5 minutes.	Engage in an average of 60 minutes of physical activity per day over the week.
Fundamental movement skills not emphasised in previous edition.	Greater emphasis on the importance of developing fundamental movement skills in school children and youths by engaging in different activities.

Preschool, school children and youths should limit the amount of time spent in sedentary behaviours, especially recreational screen time as it has been highlighted as the key factor. Instead, they should engage in a variety of physical activities regularly.

Infants below one years old should be encouraged to engage in at least 30 minutes of tummy time per day. Young school children should aim for at least 180 minutes of physical activity of any intensity spread throughout each day. It doesn't have to be all at once and every minute counts. Additionally, for all children aged three years and older, 60 minutes of the time spent actively should be of moderate- to vigorous-intensity.

Preschool, school children and youths should also engage in vigorous-intensity aerobic activities, muscle and bone strengthening exercises at least 3 days a week, where doing a variety of activities can help to build their Fundamental Movement Skills (FMS).

EXAMPLES OF AEROBIC, MUSCLE & BONE STRENGTHENING ACTIVITIES FOR SCHOOL CHILDREN

*Not an exhaustive list

	MODERATE-INTENSITY	VIGOROUS-INTENSITY
AEROBIC		
	• Games at the Playground (Hide and Seek)	• Games at the Playground (Tag/Catching)
	• Commute by cycling	• Mountain biking
MUSCLE STRENGTHENING*	• Casual racquet sports	• Competitive racquet sports
	• Games at the playground (e.g. tug-of-war)	• Circuit training
	• Climbing	 Hopping, jumping, and rope-skipping
		 Playing a football match
BONE STRENGTHENING*		
	 Games at the playground (e.g. hopscotch) 	• Martial arts
	• Casual basketball or netball	• Competitive basketball or netball game
	• Gymnastics	• Dancing

* All muscle and bone strengthening activities of moderate- or vigorous-intensity are also considered as aerobic activities

EXAMPLES OF FUNDAMENTAL MOVEMENT SKILLS

LOCOMOTOR SKILLS

Enabling children to move through different environments, moving their bodies from one location to another. Examples of key locomotor skills:

- Walking
- Running
- Jumping
- Hopping
- Skipping
- Sliding

OBJECT CONTROL SKILLS

Making controlled contact with objects using parts of the body or using an implement.

Examples of object control skills:

- Rolling
- Throwing
- Catching
- Kicking
- Striking
- Dribbling

STABILITY SKILLS

Maintaining and acquiring balance in static and dynamic movements.

Examples of stability skills:

- Balancing
- Turning
- Twisting
- Stretching
- Transferring of weight

EXERCISE INTENSITY



Light Can talk in full sentences and sing



Moderate Can talk in phrases of

Can talk in phrases or short sentences but cannot sing



Vigorous Have difficulty talking

CASE STUDIES: SCHOOL CHILDREN & YOUTHS

CASE STUDY #1



DE WEI, 9 Sedentary school child who enjoys e-games

De Wei is a primary school boy who enjoys e-gaming. Apart from walking to and from the school bus on weekdays, he does not engage in any structured physical activity. De Wei's biggest passion is playing online games with his friends on weekends. When he is not gaming, he is studying for his school exams. His parents spend a lot of time supporting De Wei in his studies and feel that there is no time for leisure time physical activity. De Wei often feels lethargic and tired, and he tends to eat high-sugar foods to give him energy boosts before school or during an intense gaming session.

While De Wei is getting some light intensity exercises intermittently throughout the week, he should be aiming for higher levels of physical activity. If your child is also passionate about e-gaming, consider the following:



Always set aside time throughout the week for leisure time physical activity as it helps to boost your child's mood and improves critical thinking.



Find a gaming system that involves movement to increase physical activity while gaming. Activities like dancing, tennis, bowling and boxing have been adapted to a virtual format so you can now interact with the game as a form of physical activity.

CASE STUDY #2



EMMA, 5

Teenage girl with a packed academic and social calendar

Emma is a secondary school girl who enjoys hip hop dance. This aerobic physical activity is intense, and Emma takes part in dance classes three times a week, with each session lasting 90 minutes. This adds up to a total of 4.5 hours of physical activity each week. Besides dancing, Emma takes part in her weekly physical education classes in school.

As the pressure from school continues to build up, Emma finds herself becoming more inactive in and out of school when she's not dancing with her friends. She feels tired all the time and struggles to squeeze all her studies and schoolwork into the time she has after school. On weekends when she's not studying, Emma likes to go for a walk at MacRitchie reservoir with with her mother and has been doing it since she was a little girl. She finds the light-intensity walk in a nature setting calming and enjoys conversations with her mother about life in general. Like many of her friends, Emma spends many hours in front of a screen doing schoolwork and catching up on the latest social media trends.

Emma can focus on meeting the sleep recommendations of 8 to 10 hours every night to help her stay energised. This will also have a positive influence over her attention, memory, learning, behaviour, emotional regulation, quality of life, mental and physical health. She is doing great on a weekly basis and engages in physical activities. She has found a hobby that she is passionate about, and this will help to sustain the level of physical activity on a long-term basis. As an activity, dancing can engage multiple muscle groups and energy systems in each bout of activity. The balance and coordination component of dancing may also help to improve Emma's quality of movement and sense of movement competency. For most youths, it is important to:



Include activities that require multidirectional bodyweight movement to improve strength.





Limit screen time as it may impact one's quality of sleep.



Have a consistent sleep routine and sleep for about 8 to 10 hours every night.

physical activity.



Head out during the weekends with friends and

family for a stroll, and enjoy nature for light-intensity

Build in regular breaks to move around during times of prolonged sitting or inactivity.

SUMMARY OF EVIDENCE: SCHOOL CHILDREN & YOUTHS

SEDENTARY BEHAVIOUR





Physical activity in school children and youths is positively associated with increased proficiency in motor/movement skills (physical literacy). High-intensity interval training, compared with moderate-intensity continuous training, had a

moderate-intensity continuous training, had a moderate beneficial effect on cardiorespiratory fitness.