

## PAIS AQI SCHOOL GUIDELINES AND POLICY

The air that we breathe is very crucial to our health and safety as it can affect everyone around us inside and outside our learning space. As we learn here at Pan-Asia International School, being aware and conscious as to how healthy the air we breathe and managing effectively for a sustainable effort is our main priority.

Poor air quality can significantly impact health, learning outcomes, and attendance, especially in areas like Prawet District, Bangkok where PAIS is located. It can lead to respiratory issues, eye irritation, fatigue, and long-term health problems for children. It also impacts cognitive functions, leading to reduced focus and learning efficacy. Increased respiratory illnesses and allergies during periods of poor AQI can result in higher student and teacher absenteeism.

AQI level monitoring is more frequent during certain periods of the year based on season, especially that it weakens the immune system causing more problems with respiration. Peak pollution periods in Thailand are at its highest during the months of November to March (cool and dry season) due to temperature inversions trapping pollutants, and March to May (Pre-monsoon) having high levels of dust and heat which contribute to poor air quality.

Air normally comprises nitrogen and oxygen as well as other gases. It is not detrimental to our health if it does not have a harmful level in it, as such we consider it clean air. To monitor the condition and how clean the air is, checking the air quality is necessary.

When the presence and concentration of pollutants such as carbon monoxide, nitrogen oxide, lead, ground level ozone, particulate matter and sulfur dioxide in the atmosphere is high, it becomes hazardous to health. With the aid of air quality index (AQI) which is a tool for measuring the level of pollutants of the air that we breathe and how it can affect our health, it becomes necessary as a guide in planning our activity outside and inside the classroom.

### AIR QUALITY INDEX (AQI) LEVEL

Air Quality Index (AQI) Values	Levels of Health Concern
0 to 50	Good
51-100	Moderate
101-150	Unhealthy for Sensitive Groups
151-200	Unhealthy
201-300	Very Unhealthy
301 to 500	Hazardous

## HOW PAIS ACQUIRE AQI READING

Air quality in the school is monitored locally using new outdoor devices installed on the campus. Download the app “AirVisual” and access the school’s AQI reading by providing the school’s name and country. Daily and hourly updates who use the app will have a live update as to AQI level with health advisory.

## COMMUNICATING AQI PROTOCOL

During the seasons where AQI is at its highest is when our safety and health officers and / or coordinators are more vigilant in monitoring the AQI at school.

### Action plan to communicate AQI across the school

1. Promotion of AQI awareness in the school grounds through LINE app connecting to all sections of the school.
2. Systematic AQI timely update when its reading or level is not good for the health by the safety and health officers as well as coordinator.



### AQI Categories and Actions for PAIS Schools

AQI Level	Air Quality Description	Implications for Schools	Recommended Actions
<b>0–50 (Good)</b> <b>GREEN</b>	Air quality is satisfactory.	Safe for all students and staff.	No restrictions on outdoor activities.
<b>51–100 (Moderate)</b> <b>YELLOW</b>	Air quality is acceptable. Sensitive individuals (e.g., students with asthma) may experience mild effects.	Monitor sensitive students during outdoor activities.  A good day to be active outside	Sensitive students need to be cautious staying outdoors.
<b>101–150 (Unhealthy for Sensitive Groups)</b> <b>ORANGE</b>	Sensitive groups (e.g., children with asthma / with respiratory or heart conditions) may experience adverse effects.	Limit outdoor activities for sensitive groups not more than 30 minutes at a time; ensure they have medication if needed.	Wearing of face mask N95 to all sensitive groups; run air purifier; watch for symptoms

<b>151–200 (Unhealthy) RED</b>	Everyone may experience health effects, sensitive groups more likely.	No outdoor activities for all students. Consider indoor options for physical activity.	Face masks (N95) are highly recommended when outdoors. Stay indoors. Run a purifier.
<b>201–300 (Very Unhealthy) PURPLE</b>	Health warnings of emergency conditions; the entire population may be affected.	Cancel outdoor activities. Keep students indoors and limit strenuous activities.	No outdoor activities. Close all windows. Face mask to all when outdoors. Run a purifier.  Listen to health advisory (internal/ external)
<b>301+ (Hazardous) MAROON</b>	Emergency conditions. Everyone is more likely to be affected.	School closures protocols may be necessary. Ensure air filtration indoors.	STAY at HOME.

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### PAIS AIR QUALITY INDEX ACTION PLAN













ACTIVITIES	AQI 101-150 (ORANGE)	AQI 151-200 (RED)
SNACK BREAK / RECESS	Usual distribution area but those with respiratory concern should wear mask to go to the distribution area	<ol style="list-style-type: none"> <li>1. Nursery and Kindergarten should eat snacks inside the classroom</li> <li>2. Snack distribution area should be moved to the cafeteria for Primary. Get your snacks and go back to the classroom.</li> </ol>
LUNCH BREAK	Proceed with the usual schedule and timing <b>except:</b> Nursery and K1 will eat inside the classroom	<ol style="list-style-type: none"> <li>1. Nursery and Kindergarten will eat lunch inside the classroom</li> <li>2. Primary will eat with Primary facilitators 11:00- 11:30</li> <li>3. Middle School (Gr.6-8) 12:00 - 12:30</li> <li>4. High School (G9-G12) - 12: 30 to 1:00 p.m.</li> </ol> <p>After having lunch, everyone will proceed to the classroom while waiting for the 1st class in the afternoon. While waiting for their lunch schedule, stay inside the classroom.</p>
Swimming schedule	No swimming with	No swimming classes for All KG and

	respiratory problem	Primary. Middle school and HS will have 1 period of swimming with breaks every 15 minutes or as necessary.
Physical Education class	<p>Can have outdoor activities with frequent breaks.</p> <p>Anyone with asthma, breathing problems will have indoor play and is limited to 1 period only with frequent breaks.</p>	<p>Restrict indoor and outdoor activities from light moderate exercise. <b>No sports.</b> Having frequent breaks. Limited to 1 period only.</p> <p>Classroom instruction is highly advised.</p> <p>Classes will be indoor to all Kindergarten and lower Primary.</p> <p>Anyone who complains with difficulty breathing or who has asthma or other respiratory problems are advised to stay indoors instead.</p>
Athletic practices / trainings / sports club	<p>Students with asthma, other respiratory or cardiovascular problems should increase rest periods and reduce activities to lower breathing rates, if not, best limit to half period duration.</p> <p>For those with asthma, it is advised to bring their inhaler.</p>	<p>No athletic practices / training to students with asthma, other respiratory or cardiovascular problems.</p> <p>Decrease the intensity and duration to half period with frequent rest breaks to lower breathing rates.</p> <p>Coaches should request consent from parents for the day's practice.</p> <p>Best reschedule the practice or training schedule for the day.</p>
Scheduled sport events	<p>Students with asthma, other respiratory or cardiovascular problems are not allowed to join the sport event.</p>	<p>Consideration should be given as to rescheduling or relocating the event to an indoor facility.</p> <p>Parent consent is a must and a clause must be inclusive that if AQI is "Unhealthy", the school will cancel the event or coaches as to joining the event.</p>
Trips	<p>Students with asthma, other respiratory or cardiovascular problems, are advised to wear N95 face masks before the said trip.</p> <p>Sensitive groups like Kindergarten to Lower Primary, best to reschedule the date.</p>	<p>No cancellation to trips to an inside institution or facility, but everyone has to wear mask</p> <p>Outdoor trips for all need to be rescheduled.</p>

## **Asthma Action Plan when AQI is High**

1. Identify the Symptoms such as difficulty breathing, wheezing, coughing, or fatigue.
2. Avoid known triggers (e.g., dust, pollen).
3. Stay indoors.
4. Wearing of N95 Mask.
5. Keep rescue inhalers accessible at all times.



AIR QUALITY DESCRIPTION	IMPLICATIONS FOR SCHOOLS	RECOMMENDED ACTIONS
 <b>Good</b> Air quality is satisfactory.	Safe for all students and staff.	<b>0-50</b> 
 <b>Moderate</b> Air quality is acceptable. Sensitive individuals (e.g., students with asthma) may experience mild effects.	Monitor sensitive students during outdoor activities. A good day to be active outside	<b>51-100</b> 
 <b>Unhealthy for sensitive groups</b> Sensitive groups (e.g., children with asthma / with respiratory or heart conditions) may experience adverse effects.	Limit outdoor activities for sensitive groups; ensure they have medication if needed.	<b>101-150</b> 
 <b>Unhealthy</b> Everyone may experience health effects, sensitive groups more likely.	No outdoor activities for all students. Consider indoor options for physical activity.	<b>151-200</b> 
 <b>Very Unhealthy</b> Health warnings of emergency conditions; the entire population may be affected.	Cancel outdoor activities. Keep students indoors and limit strenuous activities.	<b>201-300</b> 
 <b>Hazardous</b> Emergency conditions. Everyone is more likely to be affected.	School closures protocols may be necessary. Ensure air filtration indoors.	<b>301-500</b> 
		STAY AT HOME