Nan	ne: Period: Date:								
ITAII	Name: Period:Date:								
	Environmental Science #7-1: Air Quality Index (AQI)								
Air p to air and result pollu the A air quunhe In this conditions.	collution is a serious, widespread environmental issue that directly impacts human health. Exposure repollution can cause children to develop asthma as well as causing adults to develop lung cancer emphysema, among other illnesses. It can cause an increase in sick days in children and adults, liting in lowered productivity, and it can actually decrease your overall lifespan. Experts can track air ation by using sensors to measure particulate matter (PM) and other pollutants in the air to calculate Air Quality Index, or AQI. The higher the AQI, the greater the amount of pollution and the worse the uality. An AQI of less than 50 is considered "Good", while an AQI of 100 or greater is considered ealthy. For more information, see: airnow.gov is activity, we will perform a "longitudinal study" over 30 days by recording the AQI and weather litions in Kent. Then, we'll compare our city's AQI to other cities around the world.								
Purp To re	<u>pose</u> ecord the Air Quality Index of Kent, Ohio for 30 days.								
	liction rou think Kent will have "Good", "Moderate", or "Unhealthy" air quality? Explain.								
<b>Proc</b> 1.	cedure Once per day for 30 days, go to <b>bit.ly/kentaqi</b> and record the AQI, dominant pollutant, and overall weather in the table on the back of this worksheet.								
Que	stions – only answer these questions after recording data for 30 days!								
1.	Was your initial prediction correct? Why or why not?								
2.	hat pattern, if any, did you notice between each day's air quality and the weather that day? Why you think this might have happened?								
3.	Look at the historical air quality data for Akron at <b>bit.ly/akronaqi</b> . What month in 2019 had the most days with the worst air quality? Why do you think this might have happened?								

Look at the "Air Quality Rankings" at **bit.ly/akronaqi**. What city currently has the worst air quality reading in the world? Why do you think that might be the case?

## <u>Data</u>

Day#	Date	AQI	AQI Description	Dominant Pollutant	Weather (high temp., precipitation, etc.)