

Exploring Air Quality

Student Activity Sheet 4

Exploring Air Quality: AQI Module Rubric

	Building proficiency	Approaching proficiency	Demonstrating proficiency
Ask data-based questions	<ul style="list-style-type: none"> Questions are information-based only (simple questions based on calculations from the data set). 	<ul style="list-style-type: none"> Questions are based on the data and represent simple conclusions. 	<ul style="list-style-type: none"> Questions are data-based and require students to draw conclusions. Questions are relevant to the audience. Questions are motivated by the context.
Manage data	<ul style="list-style-type: none"> Data is collected that is available with minimal management. 	<ul style="list-style-type: none"> Data is collected that is relevant to the questions asked. 	<ul style="list-style-type: none"> Data is collected that is relevant to the questions asked. Data sets are cleaned to address extraneous, incorrect, or missing data.
Make sense of and represent data	<ul style="list-style-type: none"> Visual displays are created to represent the data. 	<ul style="list-style-type: none"> Insights are drawn from data. Insights are communicated to others. Visual displays are created to represent the data. 	<ul style="list-style-type: none"> Valid insights are drawn from data visualizations. Insights are clearly communicated to others in a meaningful way. Visual displays are effectively used to describe relationships or patterns.
Create data-based arguments or reach data-based conclusions	<ul style="list-style-type: none"> Data distributions are created. 	<ul style="list-style-type: none"> Data distributions are created. Comparisons of data distributions are made. 	<ul style="list-style-type: none"> Appropriate data distributions are created, including shape, center, variability and any unusual features. Appropriate comparisons of data distributions are made. Potential consequences of data-based arguments or conclusions are addressed.
Communicate clearly	<ul style="list-style-type: none"> Key findings are articulated and presented. 	<ul style="list-style-type: none"> Key findings are articulated and presented to a relevant audience. 	<ul style="list-style-type: none"> Key findings are clearly articulated and presented to a relevant audience. Action steps are identified that interest the targeted audience.

