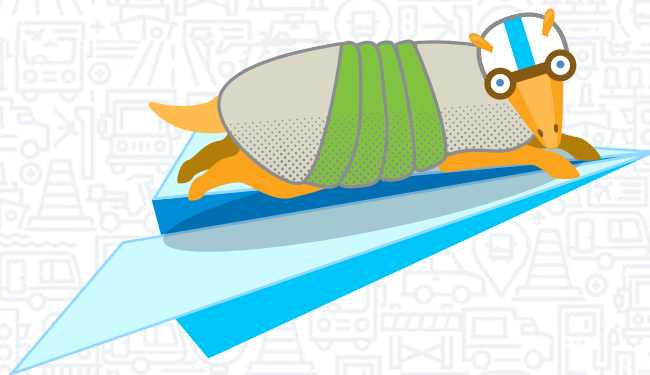


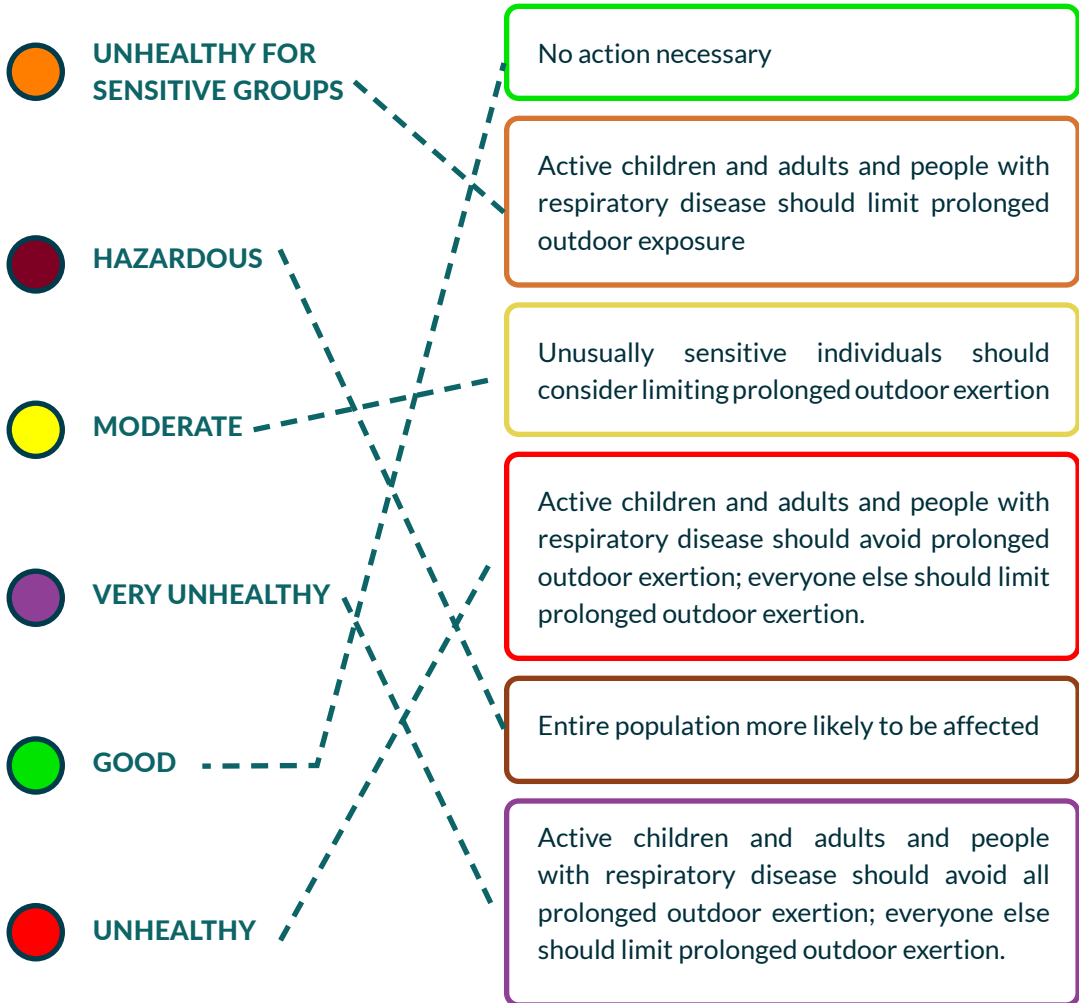
AIR QUALITY *Activity* BOOKLET



ANSWER KEY

TEST YOUR KNOWLEDGE

Match the Air Quality Index to its appropriate action below:



WORD SEARCH

Find the air quality-related words from the word bank below!
Answers are horizontal, vertical, and diagonal.

KRKVYSAKDFMLAPRBVKLAWRJAWERFOIJWEFOIJAWEFIJA
SXATMOSPHEREWAHJZMSRGVAOWLEJKSDGGZVHJMAEDTEKX
TTISCCYAJSMTGROUNDEVELOZONEAWHFWROIWHWMETGF
WIRYENALSYVTGTNEXEAPWLUMNUOGHITTEYXJMNOSTAS
MQQANOYZASUSJ IEMHSEOETHEHTANSYCAWENEXUSFUETGM
SPUPTPSUTENECCEMEINWOASYSYABUYSYAXYANWNEMTPS
GRAYSOXKCUGHQUJAUGPJHDNEIGTEISKMNCALCULATION
MWLFILSXSJSACLZUQNUZNNFHXSTCUEUHSOUSRUYSYXLE
AQISGUTPHNENTAUGLAUWKCMMSISAGUHUGHEUNIUGCHWLN
EOTEOPLEHVEWNTCHETEAVAMENGINEOFFWYGCTAGEDCUD
MGYWVWEMVEBUIENCAINRENJSYSNNFENAEFKJERSTHDTV
NRWVNEMEUFRAHANWMOCMSSYVYFMVWELAIIDCHRLZKDYAE
HUSEMIRGEULIEIHFSNKJDZJSMHEALTHTNESFIFDJKCNX
DJGNRAOIJHEKCAFENJIPFAIYWENCLAJEFYCUAMEFHETE
WAIRMADILLOEGWUEARGBNNCHCATUEGFOHIAJLKSIFYUGE

WORD BANK

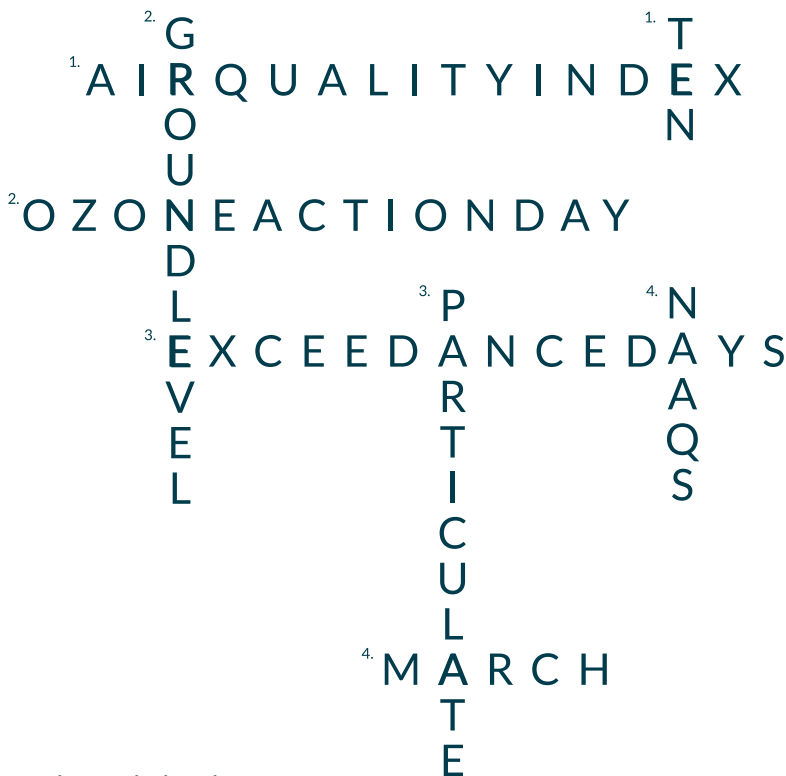
GROUND LEVEL OZONE
PARTICULATE
NONATTAINMENT
HEALTH
POLLUTANT

ENGINE OFF
AIR QUALITY
AQI
TEXAS
CRITERIA

STRATOSPHERIC
CALCULATION
DESIGNATION
ATMOSPHERE
AIRMADILLO

AIR QUALITY CROSSWORD

Use the prompts below to test your Air Quality knowledge!



ACROSS

1. What is the color-coded scale designed by the EPA for reporting daily air quality called? (pg. 8)
2. What is issued to the public when ozone concentrations are anticipated to reach levels high enough to impact sensitive populations? (pg. 12)
3. An area can be designated nonattainment due to as few as four high-pollution days, called? (pg. 10)
4. The ozone season in North Texas goes from ____ 1 to November 30. (pg. 5)

DOWN

1. How many counties in North Texas are currently in violation of the 2008 8-hour Ozone NAAQS? (pg. 9)
2. Which type of ozone is commonly referred to as “bad ozone”? (pg. 4)
3. Microscopic solid or liquid particles suspended in the air are called ____ matter. (pg. 6)
4. What regulates the six criteria pollutants? (pg. 3)

REAL LIFE AIR QUALITY

See below to calculate the Design Value (DV) and find the AQI in your area!

CALCULATE THE 2024 DESIGN VALUE

Use the table to the left to answer the questions below.

TOP FOUR HIGHEST RECORDED DAILY OZONE CONCENTRATIONS

	2022	2023	2024
1st	85	83	87
2nd	84	79	83
3rd	83	79	77
4th	81	79	76

LIST THE FOURTH-HIGHEST VALUE FOR EACH YEAR

2022: 81

2023: 79

2024: 76

ADD THE THREE VALUES TOGETHER THEN DIVIDE BY THREE:

$(81 + 79 + 76) / 3 =$ 78