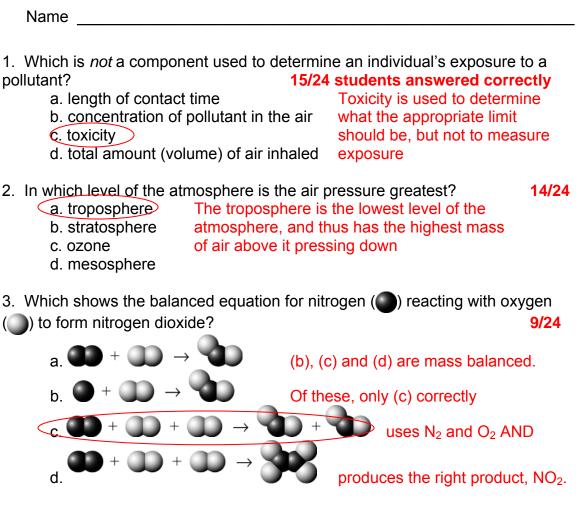
Chem / Envsty L111: Quiz 2



4. Choose the name of the compound formed by combining potassium (K) with iodine (I) to form KI. 20/24

- a. monopotassium iodide In molecules with only 2 elements, the rule is to b. iodine potassiate
- c. potassium iodide

name the metal first and then the non-metal with the –ide ending. The mono- prefix is not d. potassium monoiodide needed in cases where other, similar

molecules do not exist - particularly in binary molecules made of metals and non-metals

5. What is the most appropriate concentration unit used to express the concentration of a pollutant that has a concentration of 0.00004%?

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- Both (b) and (c) were accepted. This number is 0.4 ppm a. pph
- b. ppm or 400 ppb. Your text would recommend 0.4 ppm, but
- c. ppb "hundreds" of ppb is standard usage in real life.
- d. none of these

6. Which approach would reduce indoor air pollution?

a. air conditioning

b. sealing windows shut

c. increasing the air exchange indoor and outdoor air – opening d. dry cleaning clothes

7. Same as Question 1. Note that I calculated your grades based on either 9 or 10 total questions in order to give the highest scores possible.

8. Catalytic converters reduce the amount of in the car exhaust. 16/24

a. O ₃	Catalytic converters are designed to undo incomplete
b. CO ₂	combustion. They transform CO into CO ₂ , which is
c. CO	not toxic.
c. CO d. SO ₂	

9. Green chemistry is:

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- a. The evolution of green gases during a chemical reaction.
- b. The chemistry associated with plants.
- c. The study of green molecules and atoms.

d. The design of products and processes that reduce hazardous substances.

10. Which is the balanced chemical equation showing hydrogen peroxide (H_2O_2) decomposing into hydrogen (H₂) and oxygen (O₂)? 18/24

a. $H_2O_2 \rightarrow H_2 + O_2$ b. $H_2 + O_2 \rightarrow H_2O_2$ c. 2 H₂ + O₂ \rightarrow 2 H₂O₂ d. 2 $H_2O_2 \rightarrow 2 H_2 + O_2$

Only (a) and (d) show peroxide as the reactant and H_2 and O_2 as products. Of these two, only (a) is mass-balanced.

The easiest way to reduce indoor

windows and doors, for example.

pollutants is to regularly exchange

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