

1. Write the formulas for the following compounds.

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|-------------------------|-----------------------------------|-----------------------------|-----------------------------------|
| a. carbon dioxide | <u>CO₂</u> | k. diphosphorus trisulphide | <u>P₂S₃</u> |
| b. silicon dioxide | <u>SiO₂</u> | l. dinitrogen monoxide | <u>N₂O</u> |
| c. water | <u>H₂O</u> | m. dichlorine monoxide | <u>Cl₂O</u> |
| d. carbon disulphide | <u>CS₂</u> | n. bromine gas | <u>Br_{2(g)}</u> |
| e. sulphur trioxide | <u>SO₃</u> | o. carbon monoxide | <u>CO</u> |
| f. carbon tetrachloride | <u>CCl₄</u> | p. xenon tetrafluoride | <u>XeF₄</u> |
| g. sulphur dioxide | <u>SO₂</u> | q. neon gas | <u>Ne_(g)</u> |
| h. dinitrogen tetroxide | <u>N₂O₄</u> | r. silicon tetrahydride | <u>SiH₄</u> |
| i. nitrogen monoxide | <u>NO</u> | s. iodine heptachloride | <u>ICl₇</u> |
| j. arsenic tribromide | <u>AsBr₃</u> | t. krypton difluoride | <u>KrF₂</u> |

2. Write the names for the following compounds.

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|----------------------------------|--------------------------------|----------------------------------|----------------------------------|
| a. CF ₄ | <u>carbon tetrafluoride</u> | k. NF ₃ | <u>nitrogen trifluoride</u> |
| b. NH ₃ | <u>nitrogen trihydride</u> | l. P ₂ S ₅ | <u>diphosphorus pentasulfide</u> |
| c. PBr ₃ | <u>phosphorus tribromide</u> | m. PF ₅ | <u>phosphorus pentafluoride</u> |
| d. F ₂ gas | <u>fluorine gas</u> | n. ICl | <u>iodine monochloride</u> |
| e. CS ₂ | <u>carbon disulfide</u> | o. SeCl ₂ | <u>selenium dichloride</u> |
| f. CO | <u>carbon monoxide</u> | p. Cl ₂ O | <u>dichlorine monoxide</u> |
| g. SiC | <u>silicon monocarbide</u> | q. AsBr ₃ | <u>arsenic tribromide</u> |
| h. N ₂ O ₄ | <u>dinitrogen tetraoxide</u> | r. H ₂ S | <u>dihydrogen monosulfide</u> |
| i. P ₂ O ₅ | <u>diphosphorus pentaoxide</u> | s. B ₂ H ₈ | <u>dibromine octahydride</u> |
| j. SF ₄ | <u>sulfur tetrafluoride</u> | t. TeCl ₂ | <u>tellurium dichloride</u> |

3. Write the formulas for the following compounds.

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|-------------------------------|------------------------------|-----------------------|---------------------------|
| k. calcium fluoride | CaF_2 | k. potassium sulphate | K_2SO_4 |
| l. carbon disulfide | CS_2 | l. barium nitride | Ba_3N_2 |
| m. nitrogen triiodide | NI_3 | m. aluminum hydroxide | $\text{Al}(\text{OH})_3$ |
| n. sodium phosphide | Na_3P | n. fluorine gas | $\text{F}_{2(\text{g})}$ |
| o. dichlorine monoxide | Cl_2O | o. silicon dioxide | SiO_2 |
| p. iron (III) carbonate | $\text{Fe}_2(\text{CO}_3)_3$ | p. calcium hydroxide | $\text{Ca}(\text{OH})_2$ |
| q. sulphuric acid | H_2SO_4 | q. xenon gas | $\text{Xe}_{2(\text{g})}$ |
| r. diphosphorus pentasulphide | P_2S_5 | r. gold (I) nitrate | AuNO_3 |
| s. tin (IV) chloride | SnCl_4 | s. sulphur trioxide | SO_3 |
| t. magnesium chlorate | $\text{Mg}(\text{ClO}_3)_2$ | t. nitric acid | HNO_3 |

4. Write the names for the following compounds.

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| a. CCl_4 <u>carbon tetrachloride</u> | k. NaNO_3 <u>sodium nitrate</u> |
| b. $\text{Mg}(\text{ClO}_3)_2$ <u>magnesium chlorate</u> | l. PCl_5 <u>phosphorus pentachloride</u> |
| c. PBr_3 <u>phosphorus tribromide</u> | m. BiF_5 <u>bismuth pentafluoride</u> |
| d. H_2 gas <u>hydrogen gas</u> | n. $\text{HClO}_{3(\text{aq})}$ <u>chloric acid</u> |
| e. PbS_2 <u>lead sulphide</u> | o. FeCl_2 <u>iron (II) chloride</u> |
| f. $\text{Al}_2(\text{CO}_3)_3$ <u>aluminum carbonate</u> | p. N_2O <u>dinitrogen monoxide</u> |
| g. Na_2SO_4 <u>sodium sulfate</u> | q. CuClO_3 <u>copper chlorate</u> |
| h. Na_2O <u>sodium oxide</u> | r. Li_3PO_4 <u>lithium phosphate</u> |
| i. $\text{Al}_2(\text{SO}_4)_3$ <u>aluminum sulfate</u> | s. SnO <u>tin (II) oxide</u> |
| j. $\text{H}_2\text{SO}_{4(\text{aq})}$ <u> sulphuric acid</u> | t. SeCl_2 <u>selenium dichloride</u> |