

Schedule 1 Quiz Answer Sheet



Name/Delegation: _____

Email: _____

Instructions: Provide barcode designations, e.g. S1-1, in the appropriate boxes.

1A(1) O-Alkyl (<C10, incl. cycloalkyl) alkyl (Me, Et, n-Pr or i-Pr) phosphonofluoridates

1A(2) O-Alkyl (<C10, incl. cycloalkyl) N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidocyanidates

1A(3) O-Alkyl (H or <C10, incl. cycloalkyl) S 2 dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonothiolates and corresponding alkylated or protonated salts

1A(5) : Lewisites

Lewisite 1:
2-Chlorovinyl dichloroarsine

Lewisite 2:
Bis(2-chlorovinyl)chloroarsine

Lewisite 3:
Tris(2-chlorovinyl)arsine

1A(6) : Nitrogen mustards

HN1:
Bis(2-chloroethyl)ethylamine

HN2:
Bis(2-chloroethyl)methylamine

HN3:
Tris(2-chloroethyl)amine

1A(4) : Sulfur mustards

2-Chloroethylchloromethylsulfide

Mustard gas: Bis(2-chloroethyl)sulfide

Bis(2-chloroethylthio)methane

Sesquimustard: 1,2-Bis(2-chloroethylthio)ethane

1,3-Bis(2-chloroethylthio)-n-propane

1,4-Bis(2-chloroethylthio)-n-butane

1,5-Bis(2-chloroethylthio)-n-pentane

Bis(2-chloroethylthiomethyl)ether

O-Mustard: Bis(2-chloroethylthioethyl)ether

1A(7) : Saxitoxin

1A(8) : Ricin

1B(9) Alkyl (Me, Et, n-Pr or i-Pr) phosphonyldifluorides

1B(11) : Chlorosarin
O-Isopropyl methylphosphonochloridate

1B(10) O-Alkyl (H or <C10, incl. cycloalkyl) O-2-dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl alkyl (Me, Et, n-Pr or i-Pr) phosphonites and corresponding alkylated or protonated salts

1B(12) : Chlorosoman
O-Pinacolyl methylphosphonochloridate

Reading Molecular Structures

in Augmented Reality

Atomic Color Code

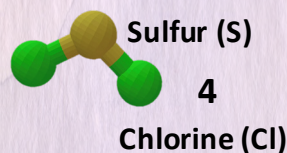
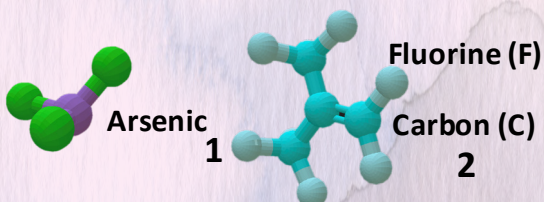
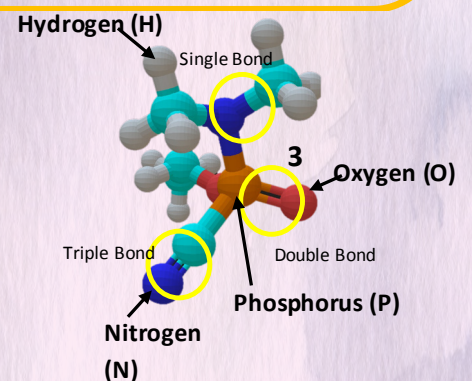
C: H: S:

N: P: As:

Cl: F: O:

Bonds

Tabun (3) has single, double and triple bonds. Each bond type has been circled and labelled so you know what to look for!



Schedule 3 Quiz Answer Sheet



Name/Delegation: _____

Email: _____

Instructions: Provide barcode designations, e.g. S3-1, in the appropriate boxes.

3A(1) : Phosgene
Carbonyl dichloride

3A(2)
Cyanogen chloride

3A(3)
Hydrogen cyanide

3A(4) : Chloropicrin
Trichloronitromethane

3B(5)
Phosphorus oxychloride

3B(6)
Phosphorus trichloride

3B(7)
Phosphorus pentachloride

3B(8)
Trimethyl phosphite

3B(9)
Triethyl phosphite

3B(10)
Dimethyl phosphite

3B(11)
Diethyl phosphite

3B(12)
Sulfur monochloride

3B(13)
Sulfur dichloride

3B(14)
Thionyl chloride

3B(15)
Ethyl-diethanolamine

3B(16)
Methyl-diethanolamine

3B(17)
Triethanolamine

Reading Molecular Structures

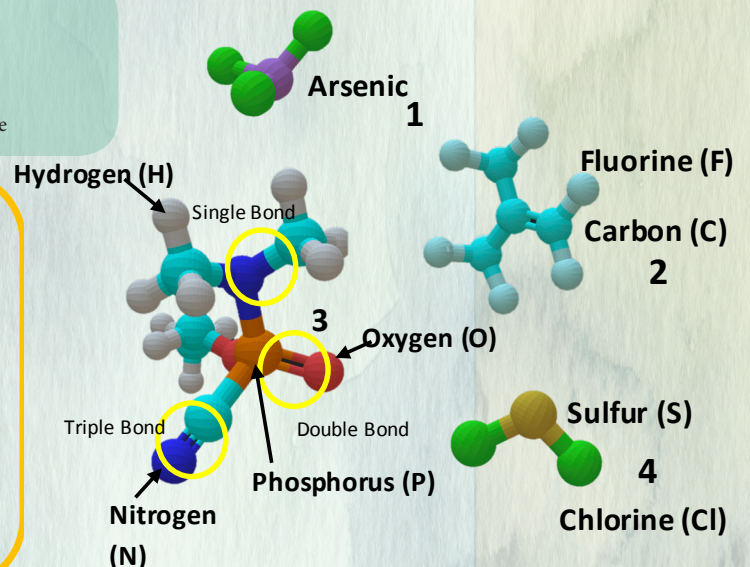
in Augmented Reality

Atomic Color Code

C: H: S:
N: P: As:
Cl: F: O:

Bonds

Tabun (3) has single, double and triple bonds. Each bond type has been circled and labelled so you know what to look for!



Schedule 2 Quiz Answer Sheet



Name/Delegation: _____

Email: _____

Instructions: Provide barcode designations, e.g. S2-1, in the appropriate boxes.

2A(1) : Amiton

O,O-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate and corresponding alkylated or protonated salts

2A(2) : PFIB

1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-propene

(S)-(-)-3-Quinuclidinol (R)-(+)-3-quinuclidinol

2B(9)

Quinuclidin-3-ol

(S)-(+)-3-Quinuclidinyl benzilate*

(R)-(-)-3-Quinuclidinyl benzilate*

2A(3)* : BZ

3-Quinuclidinyl benzilate

2B(10)

N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl-2-chlorides and corresponding protonated salts

2B(11)

N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-ols and corresponding protonated salts

Exemptions: N,N-Dimethylaminoethanol and corresponding protonated salts

N,N-Diethylaminoethanol and corresponding protonated salts

2B(4) Chemicals, except for those listed in Schedule 1, containing a phosphorus atom to which is bonded one methyl, ethyl or propyl (normal or iso group but not further carbon atoms.
(Exemption: Fonofos = O-Ethyl S-phenyl ethylphosphosphonate)

2B(12)

N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-thiols and corresponding protonated salts

2B(5)

N,N-Dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidic dihalides

2B(6)

Dialkyl (Me, Et, n-Pr or i-Pr) N,N-dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidates

Thiodiglycol: 2B(13)

Bis(2-hydroxyethyl)sulfide

2B(7)

Arsenic trichloride

2B(8)

2,2-Diphenyl-2-hydroxyacetic acid

Pinacolyl alcohol: 2B(14)

3,3-Dimethylbutan-2-ol

Reading Molecular Structures

in Augmented Reality

Atomic Color Code

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N: P: As:

Cl: F: O:

Bonds

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