

Honors Pre-AP Test on Lewis Structure

Name _____

Formula: **SnCl₄**

Valence e⁻ _____

Orbital configuration:

3-D Structure:

Bonds _____

USP _____

HED _____

Hybridization _____

Shape _____

Bond Polarity _____

Molecular Polarity _____

I-Force _____

Formula: **NO₂⁻¹**

Valence e⁻ _____

Orbital configuration:

3-D Structure:

Bonds _____

USP _____

HED _____

Hybridization _____

Shape _____

Bond Polarity _____

Molecular Polarity _____

I-Force _____

Formula: **NH₃**

Valence e⁻ _____

Orbital configuration:

3-D Structure:

Bonds _____

USP _____

HED _____

Hybridization _____

Shape _____

Bond Polarity _____

Molecular Polarity _____

I-Force _____

Lewis Structure

Name _____

Formula: **SCl₆**

Valence e⁻ _____

Orbital configuration:

3-D Structure:

Bonds _____

USP _____

HED _____

Hybridization _____

Shape _____

Bond Polarity _____

Molecular Polarity _____

I-Force _____

Formula: **NF₄⁺**

Valence e⁻ _____

Orbital configuration:

3-D Structure:

Bonds _____

USP _____

HED _____

Hybridization _____

Shape _____

Bond Polarity _____

Molecular Polarity _____

I-Force _____

Formula: **ICl₃**

Valence e⁻ _____

Orbital configuration:

3-D Structure:

Bonds _____

USP _____

HED _____

Hybridization _____

Shape _____

Bond Polarity _____

Molecular Polarity _____

I-Force _____

Lewis Structure

Name _____

Formula: **SO₃⁻²**

Valence e⁻ _____

Orbital configuration:

3-D Structure:

Bonds _____

USP _____

HED _____

Hybridization _____

Shape _____

Bond Polarity _____

Molecular Polarity _____

I-Force _____

Formula: **XeF₂**

Valence e⁻ _____

Orbital configuration:

3-D Structure:

Bonds _____

USP _____

HED _____

Hybridization _____

Shape _____

Bond Polarity _____

Molecular Polarity _____

I-Force _____

Formula: **PO₃⁻³**

Valence e⁻ _____

Orbital configuration:

3-D Structure:

Bonds _____

USP _____

HED _____

Hybridization _____

Shape _____

Bond Polarity _____

Molecular Polarity _____

I-Force _____

Lewis Structure

Name _____

Formula: **ClO₂**⁻¹

Valence e⁻ _____

Orbital configuration:

3-D Structure:

Bonds _____

USP _____

HED _____

Hybridization _____

Shape _____

Bond Polarity _____

Molecular Polarity _____

I-Force _____

Formula: **SiO₃**⁻²

Valence e⁻ _____

Orbital configuration:

3-D Structure:

Bonds _____

USP _____

HED _____

Hybridization _____

Shape _____

Bond Polarity _____

Molecular Polarity _____

I-Force _____

Formula: **IF₅**

Valence e⁻ _____

Orbital configuration:

3-D Structure:

Bonds _____

USP _____

HED _____

Hybridization _____

Shape _____

Bond Polarity _____

Molecular Polarity _____

I-Force _____

Ionic Lewis Structure

Construct the Ionic Lewis Structure for the following ionic compounds:

Nickel (III) Sulfide

Barium Chloride

Iron (III) Fluoride

Chromium (IV) Oxide

Copper (I) Oxide