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| Predicting Molecular Geometry  CλeMis+ry: http://genest.weebly.com  Stop in for help every day at lunch and Tues,&Thurs after school! |  | Name\_\_\_\_\_\_\_\_\_  Period\_\_\_\_\_\_\_\_ |

1. Next to each, write the name of the geometric shape based on the central atom. You don’t have to memorize these names; you will always have your reference table for quizzes and tests.

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1. Draw a stable Lewis Dot structure for each molecule AND THEN WRITE the name of the moleculaes geometry, based on the central atom:

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| NI3  What’s the name of this geometry? | OF2  What’s the name of this geometry? |
| CO2  What’s the name of this geometry? | H2O  What’s the name of this geometry? |

1. Write the electron configuration ( 1s2 2s2…) for each atom below
2. an atom with 15 electrons
3. a neutral iron atom
4. What is the smallest element in Period 2?
5. Which element in Group 2 has the highest electronegativity?
6. Draw a stable Lewis Dot structure for each molecule:

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| --- | --- |
| CH4  What’s the name of this geometry? | HCCH  What’s the name of this geometry? |
| SO2  What’s the name of this geometry? | H2CCH2  What’s the name of this geometry? |

1. Draw a stable Lewis Dot structure for each molecule

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| N2 | O3 |