ANSWERS: **Shapes of molecules (level 3)**

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| ClF5**octahedral – square pyramid****90**° and slightly smaller and larger than 90° | SF3-**trigonal bipyramidal – t-shaped****90**° |  |
| PCl6-ass91390aQ1c2octahedral90° | SiF62–octahedral90° | **I3-****trigonal bipyramidal - linear****90**° **and 120**° |
| ICl2­–**trigonal bipyramidal – linear****180**° | IF5**octahedral – square pyramid****90**° and slightly smaller and larger than 90° | **PCl3****trigonal pyramidal****107**° |
| **PCl5****shapepf51****trigonal bipyramidal****90**° and 120° | **SF6****shapesf61****octahedral****90**° | **SF4****trigonal bipyramidal – seesaw****90**° and 120° |

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| **ClF3****trigonal bipyramidal – t-shape****90**° | **AsF5****trigonal bipyramidal****90**° and 120° | **IF3****trigonal bipyramidal – t-shape****90**° |
| **NF3****trigonal pyramidal****107**° | **XeF4**http://www.uwplatt.edu/%7Esundin/images/vsprxef4.gif**octahedral – square planar****90**° | **BrF3****trigonal bipyramidal –** **t-shaped****90**° |
| **BrF4-****octahedral – square planar****90**° | **BrF5****octahedral – square pyramid****90**° and slightly smaller and larger than 90° | **AsF3****trigonal pyramidal****107**° |
| **BF3****shapebf31****trigonal planar****120**° | **PF3****trigonal pyramidal****107**° | **ICl4-****octahedral – square planar****90**° |

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