**Bond dipoles and polar molecules**

|  |  |
| --- | --- |
|  | **Bond dipole present within the molecule?** |
| **HCl** |  |
| **N2** |  |
| **Cl2** |  |
| **F2** |  |

**2023** Draw two arrows (→) OR add δ+ and δ- symbols onto the carbon dioxide molecule shown below to represent the bond dipoles present in the carbon dioxide molecule.

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|  |  |  |
| --- | --- | --- |
| **Year** | **Molecule** | **Polar molecule?** |
| **2023** | water |  |
| **2022** |  |  |
| **2022** |  |  |
| **2021** |  |  |
| **2021** |  |  |
| **2019** |  |  |
| **2017**  **2010** | **dichloromethane** |  |
| **2017**  **2010** | **tetrachloromethane** |  |
| **2019**  **2016**  **2013**  **2010**  **2008** | **ammonia** |  |
| **2016** | **borane** |  |
| **2015** |  |  |
| **2015** |  |  |
| **2014** |  |  |
| **2023**  **2014**  **2011** |  |  |
| **2012** |  |  |
| **2012** |  |  |
| **2011** |  |  |
| **2009** |  |  |
| **2009** |  |  |

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