### Jovian Moon and Ring Characteristics Matrix

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| --- | --- | --- | --- | --- |
|  | **Jupiter** | **Saturn** | **Uranus** | **Neptune** |
| **Satellites** | | | | |
| Most notable moons? (Names, major characteristics) |  |  |  |  |
| Which moons have evidence for tidal heating? |  |  |  |  |
| Which moons have evidence for geological or cryological (iced-based) activity? |  |  |  |  |
| Number of medium/large moons? (Formed in place) |  |  |  |  |
| Small moons? (Captured comets) |  |  |  |  |
| **Rings** | | | | |
| Does this planet have equatorial rings? |  |  |  |  |
| Nature of rings? (Substantial vs. narrow, bright vs. dark, etc.) |  |  |  |  |

1. Name one Jovian moon that you think is particularly interesting, scientifically. Justify your answer in terms of the moon’s features, characteristics, properties, et cetera.