Small Astronomical Bodies Cheat Sheet
Version 3.0

Select moons, dwarf planets, and objects in Earth's solar system, organized by distance from the sun (near to far).
Within the planet's listing, moons are listed by relative importance to high school quizbowl.

Planet/Region	Moon/Object	Details
Mars	Phobos Deimos	named for the Roman gods of fear and panic
asteroid belt	Ceres	largest object and only **dwarf planet** in the asteroid belt; visited by **Dawn** probe, which orbited Ceres until it ran out of fuel in 2018
	Vesta	second-largest asteroid belt object; also visited by **Dawn**
Jupiter	Galilean moons	**Ganymede**, **Europa**, **Callisto**, and **Io**; the four largest moons of Jupiter; discovered independently by **Galileo Galilei** and **Simon Marius**; Ganymede is the largest moon in the solar system; Io is the most geologically active object in the solar system,
Saturn	Titan	second-largest moon in the solar system; **nitrogen-based** atmosphere; **methane** rivers and lakes; discovered by Christian **Huygens**; visited by **Huygens** probe, part of the **Cassini**-Huygens mission; contains the **Kraken Mare**
	Enceladus	**cryovolcanic** and heavily cratered; sixth-largest moon of Saturn
	shepherd moons	satellites that help contain planetary rings through their gravitational pull; Saturn's include **Prometheus** near the F ring and **Pan** near the Encke Gap
	Mimas	
Uranus	Titania Oberon Cordelia Miranda	named for characters from **Shakespeare** plays
Neptune	Triton	has a **retrograde orbit**; largely covered in **frozen nitrogen**; has a "cantaloupe terrain" formed by complex patterns of depressions in the surface
	Galatea	a shepherd moon (see above) for the Adams ring
	Proteus Thalassa	
Kuiper Belt	Pluto	largest trans-Neptunian object (TNO); dwarf planet orbited by **Charon**, **Styx**, **Kerberos**, **Hydra**, and **Nix**; visited by the **New Horizon** probe; discovered by **Clyde Tombaugh**
	Eris	dwarf planet orbited by **Dysnomia**; with **Sedna**, it was used to demonstrate that Pluto has not cleared its local area, leading to Pluto's reclassification as a dwarf planet
	Haumea Makemake Gonggong	