

BIBLIOGRAPHY

Introduction

- Adams, D. (1995). *The hitchhiker's guide to the galaxy*. New York, NY: Del Rey. (Original work published 1979)
- Beatty, K. (2016). "Strongman" Aussie discovers dwarf galaxy. *Sky & Telescope*. Retrieved from <http://www.skyandtelescope.com/astronomy-news/strong-man-aussie-amateur-discovers-dwarf-galaxy-010820155>
- Bryner, J. (2012). Amateur team finds 'Tatooine' planet with 2 suns in 4-star system. *Space.com*. Retrieved from <http://www.space.com/18065-alien-planet-tatooine-twin-suns-stars.html>
- Fingas, J. (2016). Amateur astronomers caught a Jupiter impact on camera. *Engadget*. Retrieved from <https://www.engadget.com/2016/03/29/jupiter-impact-caught-by-amateur-telescopes>
- Griggs, B. (2009). Armchair astronomer discovers unique 'cosmic ghost.' *CNN.com*. Retrieved from <http://www.cnn.com/2008/TECH/space/08/07/space.discovery>

Section 1

Introduction

- Worrall, S. (2015). The hunt for Vulcan, the planet that wasn't there. *National Geographic*. Retrieved from <http://news.nationalgeographic.com/2015/11/151104-newton-einstein-gravity-vulcan-planets-mercury-astronomy-theory-of-relativity-ngbooktalk>

A Magical Mercury Tour

- Borenstein, S. (2013). Antarctica sets cold record of -135.8 degrees. *The Weather Channel*. Retrieved from <https://weather.com/news/news/antarctica-sets-cold-record-20131209>
- Cain, F. (2017). How long is a day on Earth?. *Universe Today*. Retrieved from <http://www.universetoday.com/123218/how-long-is-a-day-on-earth-2>
- Chabot, N. L., Ernst, C. M., Denevi, B. W., Nair, H., Deutsch, A. N., Blewett, D. T., . . . Solomon, S. C. (2014). Images of surface volatiles in Mercury's polar cra-

- ters acquired by the MESSENGER spacecraft. *Geology*, 42, 1051–1054. doi: 10.1130/G35916.1
- Chapman, C. R. (2012). Caloris: Impact basin, Mercury. *Encyclopedia Britannica*. Retrieved from <https://www.britannica.com/place/Caloris>
- Choi, C. Q. (2011). Asteroid crash may explain Mercury's strange spin. *Space.com*. Retrieved from <http://www.space.com/13889-mercury-spin-asteroid-collision-tidal-locking.html>
- European Southern Observatory. (2007). *Mercury transit on May 7, 2003*. Retrieved from <https://www.eso.org/public/outreach/eduoff/vt-2004/mt-2003/mt-mercury-rotation.html>
- NASA. (n.d.). *Mercury: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/mercury/indepth>
- Redd, N. T. (2014). Tiny planet Mercury is shrinking fast. *Space.com*. Retrieved from <http://www.space.com/25102-planet-mercury-shrinking-fast.html>
- Talbert, T. (2016). 'Great valley' found on Mercury. *NASA*. Retrieved from <https://www.nasa.gov/feature/great-valley-found-on-mercury>
- Wall, M. (2014). First photos of water ice on Mercury captured by NASA spacecraft. *Space.com*. Retrieved from <http://www.space.com/27450-messenger-mercury-water-ice-photos.html>
- Wall, M. (2016). 'Great valley' on Mercury points to shrinking planet. *Space.com*. Retrieved from <http://www.space.com/34750-mercury-great-valley-shrinking-planet.html>

Won't You Be My Venustine?

- Cabbage, M., & McCarthy, L. (2016). NASA climate modeling suggests Venus may have been habitable. *NASA*. Retrieved from <https://www.nasa.gov/feature/goddard/2016/nasa-climate-modeling-suggests-venus-may-have-been-habitable>
- Daley, J. (2017). Scientists spot massive wave in Venus' atmosphere. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/smart-news/why-was-there-giant-wave-venuss-atmosphere-180961827>
- EarthSky. (2015). *What makes Venus the brightest planet?* Retrieved from <http://earthsky.org/space/brightest-planet-brightest-mirrors-venus>
- Eveleth, R. (2013). On Venus it snows metal. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/smart-news/on-venus-it-snows-metal-99154>
- Fukuhara, T., Futaguchi, M., Hashimoto, G. L., Horinouchi, T., Imamura, T., Iwagaimi, N., . . . Kouyama, T. (2017). Large stationary gravity wave in the atmosphere of Venus. *Nature Geoscience*, 10, 85–88. doi:10.1038/ngeo2873
- NASA. (n.d.). *Venus: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/venus/indepth>
- NASA. (2008). *Volcano on Venus*. Retrieved from https://www.nasa.gov/multimedia/imagegallery/image_feature_358.html

- NASA's Goddard Space Flight Center. (2012). *The last transit of Venus until 2117* [Video file]. Retrieved from <http://www.smithsonianmag.com/videos/category/science/the-last-transit-of-venus-until-2117>
- Steigerwald, B. (2011). Venus weather not boring after all, NASA/international study shows. NASA. Retrieved from <https://www.nasa.gov/topics/solarsystem/features/venus-temp20110926.html>
- Steigerwald, B. (2016). 'Electric wind' can strip Earth-like planets of oceans, atmospheres. NASA. Retrieved from <https://www.nasa.gov/feature/goddard/2016/electric-wind-can-strip-earth-like-planets-of-oceans-atmospheres>
- Zell, H. (2012). The mysterious arc of Venus. NASA. Retrieved from https://www.nasa.gov/mission_pages/sunearth/news/venus-arc.html

Our (H)Earth and Home

- Boyd, J. (2016). Study: Earth's carbon points to planetary smashup. *Rice News*. Retrieved from <http://news.rice.edu/2016/09/05/study-earths-carbon-points-to-planetary-smashup>
- Bryner, M. (2012). How did Earth get its name? *Live Science*. Retrieved from <http://www.livescience.com/32274-how-did-earth-get-its-name.html>
- De Chant, T. (2013). In 200 million years, days will be 25 hours long. *PBS*. Retrieved from <http://www.pbs.org/wgbh/nova/next/earth/in-200-million-years-days-will-be-25-hours-long>
- Genetic Science Learning Center, University of Utah. (2013). *Conditions that support life*. Retrieved from <http://learn.genetics.utah.edu/content/astrobiology/conditions>
- Greicius, T. (Ed.). (2016). Small asteroid is Earth's constant companion. NASA. Retrieved from <https://www.nasa.gov/feature/jpl/small-asteroid-is-earths-constant-companion>
- National Geographic Society. (2015). *Core*. Retrieved from <http://www.nationalgeographic.org/encyclopedia/core>
- NOVA Teachers. (2004). Origins: Earth is born. *PBS*. Retrieved from http://www.pbs.org/wgbh/nova/education/programs/3111_origins.html
- Perkins, S. (2016). Ancient eclipses show Earth's rotation is slowing. *Science*. Retrieved from <http://www.sciencemag.org/news/2016/12/ancient-eclipses-show-earth-s-rotation-slowing>
- Wilson, J. (Ed.). (2015). Earth. NASA. Retrieved from <https://www.nasa.gov/topics/earth/index.html>

Is It a Bird? Is It a Planet? No, It's Supermoon!

- Arkowitz, H., & Lilienfeld, S. O. (2009). Lunacy and the full moon: Does a full moon really trigger strange behavior? *Scientific American*. Retrieved from <https://www.scientificamerican.com/article/lunacy-and-the-full-moon>

- Davis, P. (Ed.). (n.d.). Earth's moon: Overview: Our natural satellite. NASA. Retrieved from <https://solarsystem.nasa.gov/planets/moon>
- Dunbar, B. (Ed.). (2016). The moon. NASA. Retrieved from <https://www.nasa.gov/moon>
- Gannon, M. (2014). Falling on the moon: How much gravity do astronauts really need? *Space.com*. Retrieved from <http://www.space.com/27029-moon-gravity-falling-astronauts.html>
- Gill, V. (2014). Moon mystery: Why our Earth's satellite is lemon-shaped. *BBC News*. Retrieved from <http://www.bbc.com/news/science-environment-28565730>
- Marconi, E. (2009). What on Earth are "Moon Trees?" NASA. Retrieved from https://www.nasa.gov/centers/kennedy/news/moon_trees.html
- Raison, C. L., Klein, H. M., & Steckler, M. (1991). The moon and madness reconsidered. *Journal of Affective Disorders*, 53, 99–106.
- Rao, J. (2011). 10 things you didn't know about the moon. *Space.com*. Retrieved from <http://www.space.com/11162-10-surprising-moon-facts-full-moons.html>
- Wang, K., & Jacobsen, S. B. (2016). Potassium isotopic evidence for a high-energy giant impact origin of the moon. *Nature*, 538, 487–490. doi:10.1038/nature19341

Martian to Its Own Beat

- Cain, F. (2017). How far is Mars from Earth? *Universe Today*. Retrieved from <http://www.universetoday.com/14824/distance-from-earth-to-mars>
- Chodosh, S. (2016). Most missions to Mars don't survive. *Popular Science*. Retrieved from <http://www.popsci.com/us-dominates-at-sending-stuff-to-mars>
- Coffey, J. (2015). Volcanoes on Mars. *Universe Today*. Retrieved from <http://www.universetoday.com/14837/volcanoes-on-mars>
- de Selding, P. B. (2016). ESA: Mars lander crash caused by 1-second inertial measurement error. *SpaceNews*. Retrieved from <http://spacenews.com/esa-mars-lander-crash-caused-by-1-second-inertial-measurement-error>
- NASA. (n.d.). *A chronology of Mars exploration*. Retrieved from <https://history.nasa.gov/marschro.htm>
- NASA. (n.d.). *Phobos: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/phobos/indepth>
- NASA. (2017). *Journey to Mars overview*. Retrieved from <https://www.nasa.gov/content/journey-to-mars-overview>
- NASA Ames Mars Climate Modeling Center. (n.d.). *Past climates*. Retrieved from <https://spacescience.arc.nasa.gov/mars-climate-modeling-group/past.html>
- NASA Mars Exploration. (n.d.). *All about Mars: Martian moons: Phobos*. Retrieved from <https://mars.nasa.gov/allaboutmars/extreme/moons/phobos>
- NASA Mars Exploration. (n.d.). *All about Mars: Martian year*. Retrieved from <https://mars.nasa.gov/allaboutmars/extreme/martianyear>

Zubritsky, E. (2015). Mars' moon Phobos is slowly falling apart. *NASA*. Retrieved from <https://www.nasa.gov/feature/goddard/phobos-is-falling-apart>

Is That a Real Thing?: Space Disease

American Academy of Ophthalmology. (2013). *NASA finds that space flight impacts astronauts' eyes and vision*. Retrieved from <https://www.aao.org/eye-health/news/nasa-space-flight-impacts-astronauts-eyes-vision>

Beischer, D. E., & Fregly, A. R. (1962). *Animals and man in space: A chronology and annotated bibliography through the year 1960* (ONR Report ACR-64). Washington, DC: U.S. Naval School of Aviation Medicine.

Chang, D. G., Healey, R. M., Snyder, A. J., Sayson, J. V., Macias, B. R., Coughlin, D. G., . . . Hargens, A. R. (2016). Lumbar spine paraspinal muscle and intervertebral disc height changes in astronauts after long-duration spaceflight on the International Space Station. *Spine*, *41*, 1917–1924.

Gray, T. (1998). A brief history of animals in space. *NASA*. Retrieved from <https://history.nasa.gov/animals.html>

Hersch, M. H. (2011). Space madness: The dreaded disease that never was. *Endeavour*, *36*, 32–40.

Lewis, T. (2014). How zero gravity affects astronauts' hearts in space. *Space.com*. Retrieved from <http://www.space.com/25452-zero-gravity-affects-astronauts-hearts.html>

NASA. (2016). *Space Radiation Analysis Group, Johnson Space Center*. Retrieved from <https://srag.jsc.nasa.gov>

Vasich, T. (2015). Long-term galactic cosmic ray exposure leads to dementia-like cognitive impairments. *UCI News*. Retrieved from <https://news.uci.edu/health/long-term-galactic-cosmic-ray-exposure-leads-to-dementia-like-cognitive-impairments>

Section 2

Introduction

BBC. (n.d.). *Amalthea*. Retrieved from [http://www.bbc.co.uk/science/space/solarsystem/moons/amalthea_\(moon\)](http://www.bbc.co.uk/science/space/solarsystem/moons/amalthea_(moon))

NASA. (n.d.). *Amalthea: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/amalthea/indepth>

By Jove, Jupiter!

- Blakemore, E. (2016). This is what Jupiter sounds like. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/smart-news/what-jupiter-sounds-180959686>
- Byrd, D. (2015). Is it true that Jupiter protects Earth? *EarthSky*. Retrieved from <http://earthsky.org/space/is-it-true-that-jupiter-protects-earth>
- Daley, J. (2016). Amateur astronomers capture an asteroid or comet colliding with Jupiter. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/smart-news/amateur-astronomers-capture-asteroid-comet-colliding-jupiter-180958607>
- Delsemme, A. H., & Weissman, P. (2015). Comet Shoemaker-Levy 9. *Encyclopedia Britannica*. Retrieved from <https://www.britannica.com/topic/Comet-Shoemaker-Levy-9>
- NASA. (n.d.). *Jupiter: Rings*. Retrieved from <https://solarsystem.nasa.gov/planets/jupiter/rings>
- NASA. (n.d.). *The atmosphere of Jupiter*. Retrieved from <https://www.missionjuno.swri.edu/jupiter/atmosphere>
- NASA. (2009). *Jupiter's ring formation theories confirmed*. Retrieved from <https://www.nasa.gov/centers/goddard/multimedia/largest/rings.html>
- O'Donoghue, J., Moore, L., Stallard, T. S., & Melin, H. (2016). Heating of Jupiter's upper atmosphere above the Great Red Spot. *Nature*, 536, 190-192. doi:10.1038/nature18940
- Phys.org. (2016). *New study challenges Jupiter's role as planetary shield, protecting Earth from comet impacts*. Retrieved from <https://phys.org/news/2016-02-jupiter-role-planetary-shield-earth.html>
- Redd, N. T. (2016). How a young Jupiter acted as both protector and destroyer. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/science-nature/how-young-jupiter-acted-both-protector-and-destroyer-180959695>
- Sanders, R. (2010). Helium rain on Jupiter explains lack of neon in atmosphere. *Berkeley News*. Retrieved from http://news.berkeley.edu/2010/03/22/helium_rain
- Space.com. (2010). *Jupiter's missing cloud stripe bounces back big time*. Retrieved from <http://www.space.com/9601-jupiter-missing-cloud-stripe-bounces-big-time.html>
- Talbert, T. (Ed.). (2016). Jupiter's Great Red Spot likely a massive heat source. NASA. Retrieved from <https://www.nasa.gov/feature/jupiter-s-great-red-spot-likely-a-massive-heat-source>
- Weaver, D., & Villard, R. (2007). *Hubble catches Jupiter changing its stripes*. Retrieved from https://www.nasa.gov/mission_pages/hubble/news/jupiter_stripes.html
- Williams, M. (2017). Ten interesting facts about Jupiter. *Universe Today*. Retrieved from <http://www.universetoday.com/15182/interesting-facts-about-jupiter>

Our Brother Is Bigger Than Yours

- Dunford, B. (n.d.). Callisto: In depth. NASA. Retrieved from <https://solarsystem.nasa.gov/planets/callisto/indepth>
- Hille, K. (Ed.). (2017). Hubble cooperates on galaxy cluster and cosmic background. NASA. Retrieved from <https://www.nasa.gov/image-feature/goddard/2017/hubble-cooperates-on-galaxy-cluster-and-cosmic-background>
- Lewis, D. (2016). Juno will eventually go up in flames to protect theoretical alien life. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/smart-news/juno-will-eventually-go-up-in-flames-to-protect-theoretical-alien-life-180959713>
- NASA. (n.d.). *Europa: Overview: Ingredients for life?* Retrieved from <https://solarsystem.nasa.gov/planets/europa>
- NASA. (n.d.). *Io: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/io/indepth>
- NASA. (n.d.). *Jupiter and Ganymede* [Video file]. Retrieved from <http://www.smithsonianmag.com/videos/category/science/jupiter-and-ganymede>
- NASA. (n.d.). *Jupiter: Moons*. Retrieved from <https://solarsystem.nasa.gov/planets/jupiter/moons>
- NASA. (n.d.). *Megaclite: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/megaclite/indepth>
- New Scientist. (2010). *Weird worlds: The solar system's 10 strangest moons*. Retrieved from <https://www.newscientist.com/round-up/weird-worlds-solar-system-strangest-moons>
- Perkins, S. (2016). Jupiter's shadow turns Io's atmosphere to frost once every 42 hours. *Science*. Retrieved from <http://www.sciencemag.org/news/2016/08/jupiter-s-shadow-turns-io-s-atmosphere-frost-once-every-42-hours>
- Schultz, C. (2012). Jupiter just can't decide how many moons it wants to have. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/smart-news/jupiter-just-cant-decide-how-many-moons-it-wants-to-have-142946832>
- Stromberg, J. (2014). Where in the solar system are we most likely to find life? *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/science-nature/where-solar-system-are-we-most-likely-find-life-180949994>
- Williams, M. (2015). Jupiter's moon Ganymede. *Phys.org*. Retrieved from <https://phys.org/news/2015-10-jupiter-moon-ganymede.html>
- Yuhas, A. (2016). Jupiter's moon Europa may expel water plumes from under icy shell, NASA says. *The Guardian*. Retrieved from <https://www.theguardian.com/science/2016/sep/26/jupiter-europa-water-plumes-nasa>
- Zimmermann, K. (2016). Ganymede: Facts about Jupiter's largest moon. *Space.com*. Retrieved from <http://www.space.com/16440-ganymede-facts-about-jupiters-largest-moon.html>

- Zimmermann, K. A. (2012). Jupiter's moons: Facts about the largest Jovian moons. *Space.com*. Retrieved from <http://www.space.com/16452-jupiters-moons.html>
- Zimmermann, K. A. (2016). Io: Facts about Jupiter's volcanic moon. *Space.com*. Retrieved from <http://www.space.com/16419-io-facts-about-jupiters-volcanic-moon.html>

The Fellowship of the Icy Rings

- Britt, R. R. (2009). Saturn's rings to disappear Tuesday. *Space.com*. Retrieved from <http://www.space.com/7114-saturn-rings-disappear-tuesday.html>
- Dyches, P. (2016). Cassini makes first ring-grazing plunge. NASA. Retrieved from <https://solarsystem.nasa.gov/news/2016/12/05/cassini-makes-first-ring-grazing-plunge>
- Handwerk, B. (2008). Nonstop "hurricane" raging on Saturn's south pole. *National Geographic*. Retrieved from <http://news.nationalgeographic.com/news/2008/03/080327-saturn-storm.html>
- Lewin, S. (2015). Something strange is happening inside Saturn. *Space.com*. Retrieved from <http://www.space.com/30665-unraveling-saturn-ring-mystery.html>
- Mathewson, S. (2016). Saturn's north pole has changed color, but why? *Space.com*. Retrieved from <http://www.space.com/34508-saturn-north-pole-hexagon-color-change.html>
- McClure, B., & Byrd, D. (2017). Got 5 minutes? Learn to see Saturn. *EarthSky*. Retrieved from <http://earthsky.org/astronomy-essentials/give-me-five-minutes-ill-give-you-saturn>
- Netburn, D. (2014). Mini-moons form in a matter of months in Saturn's chaotic F ring. *Los Angeles Times*. Retrieved from <http://www.latimes.com/science/sciencenow/la-sci-sn-saturn-moonlets-f-ring-20140909-story.html>
- Phys.org. (2015). *Moist explanation for Saturn's Great White Spots*. Retrieved from <https://phys.org/news/2015-04-planet-weird-ways.html>
- Schultz, C. (2014). Saturn is making (and destroying) mini-moons all the time: Saturn's F ring is a little moon factory. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/smart-news/saturn-making-and-destroying-mini-moons-all-time-180952661>
- Smithsonian National Air and Space Museum. (n.d.). *A braided ring*. Retrieved from <https://airandspace.si.edu/exhibitions/exploring-the-planets/online/solar-system/saturn/braided-ring.cfm>
- Svitil, K. (2015). Explaining Saturn's Great White Spots. *California Institute of Technology*. Retrieved from <http://www.caltech.edu/news/explaining-saturn-s-great-white-spots-46500>
- Yirka, B. (2015). Saturn's outer ring much bigger than thought. *Phys.org*. Retrieved from <https://phys.org/news/2015-06-saturn-outer-bigger-thought.html>

New Moons Is Good Moons

- Byrd, D. (2015). Origin of Saturn's F ring and shepherd moons. *EarthSky*. Retrieved from <http://earthsky.org/space/origin-of-saturns-f-ring-and-shepherd-satellites>
- Byrd, D. (2016). More evidence for young Saturn moons. *EarthSky*. Retrieved from <http://earthsky.org/space/saturn-moons-younger-cassini-dec-2016>
- Denk, T., Neukum, G., Roatsch, T., Porco, C. C., Burns, J. A., Galuba, G. G., . . . West, R. A. (2009). Iapetus: Unique surface properties and a global color dichotomy from Cassini imaging. *Science*, 327, 435–439. doi:10.1126/science.1177088
- Howell, E. (2016). Saturn's moons and rings may be younger than the dinosaurs. *Space.com*. Retrieved from <http://www.space.com/32378-saturn-rings-and-moons-younger-than-dinosaurs.html>
- Hyodo, R., & Ohtsuki, K. (2015). Saturn's F ring and shepherd satellites a natural outcome of satellite system formation. *Nature Geoscience*, 8, 686–689. doi:10.1038/ngeo2508
- Lakdawalla, E. (2006). The orbital dance of Epimetheus and Janus. *The Planetary Society*. Retrieved from <http://www.planetary.org/blogs/emily-lakdawalla/2006/janus-epimetheus-swap.html>
- NASA. (n.d.). *Epimetheus: Overview*. Retrieved from <https://solarsystem.nasa.gov/planets/epimetheus>
- NASA. (n.d.). *Janus: Overview*. Retrieved from <https://solarsystem.nasa.gov/planets/janus>
- NASA. (n.d.). *Mimas: Overview*. Retrieved from <https://solarsystem.nasa.gov/planets/mimas>
- NASA. (n.d.). *Saturn: Moons*. Retrieved from <https://solarsystem.nasa.gov/planets/saturn/moons>
- NASA's Jet Propulsion Laboratory. (n.d.). *Titan: Saturn's largest moon*. Retrieved from <https://saturn.jpl.nasa.gov/science/titan>

Twin Turquoise Titans

- Choi, C. Q. (2014). Planet Uranus: Facts about its name, moons and orbit. *Space.com*. Retrieved from <http://www.space.com/45-uranus-seventh-planet-in-earths-solar-system-was-first-discovered-planet.html>
- Choi, C. Q. (2017). Planet Neptune: Facts about its orbit, moons & rings. *Space.com*. Retrieved from <http://www.space.com/41-neptune-the-other-blue-planet-in-our-solar-system.html>
- Landeau, E. (2015). 'Pale blue dot' images turn 25. *NASA*. Retrieved from <https://www.nasa.gov/jpl/voyager/pale-blue-dot-images-turn-25>
- Matson, J. (2011). Double impact: Did 2 giant collisions turn Uranus on its side? *Scientific American*. Retrieved from <https://www.scientificamerican.com/article/uranus-axial-tilt-obliquity>

- NASA. (n.d.). *Neptune: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/neptune/indepth>
- NASA. (n.d.). *Neptune: Rings*. Retrieved from <https://solarsystem.nasa.gov/planets/neptune/rings>
- NASA. (n.d.). *Uranus: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/uranus/indepth>
- NASA, European Space Agency, & Showalter, M. (2005). The full story. *Hubblesite*. Retrieved from http://hubblesite.org/news_release/news/2005-33
- NASA's Jet Propulsion Laboratory. (n.d.). *Neptune: Learn more about the eighth planet in our solar system*. Retrieved from <http://www.nationalgeographic.com/science/space/solar-system/neptune>
- NASA's Jet Propulsion Laboratory. (n.d.). *Uranus: Learn more about the seventh planet in our solar system*. Retrieved from <http://www.nationalgeographic.com/science/space/solar-system/uranus>
- New Scientist. (2005). *Neptune's rings are fading away*. Retrieved from <https://www.newscientist.com/article/mg18524925-900-neptunes-rings-are-fading-away>
- Suomi, V. E., Limaye, S. S., & Johnson, D. R. (1991). High winds of Neptune: A possible mechanism. *Science*, 251, 929–932. doi:10.1126/science.251.4996.929
- Williams, M. (2016). Ten interesting facts about Uranus. *Universe Today*. Retrieved from <https://www.universetoday.com/19279/10-interesting-facts-about-uranus>
- Williams, M. (2016). What is the coldest planet of our solar system? *Universe Today*. Retrieved from <https://www.universetoday.com/65353/what-is-the-coldest-planet-of-our-solar-system>

Is That a Real Thing?: Jupiter Is a Failed Star

- Kraus, A. (2015). Is Jupiter a failed star? *Ask an Astronomer*. Retrieved from <http://askastronomer.org/planets/2015/11/05/is-jupiter-a-failed-star>
- Scientific American. (2002). I have heard people call Jupiter a “failed star” that just did not get big enough to shine. Does that make our sun a kind of double star? And why didn’t Jupiter become a real star?” Retrieved from <https://www.scientificamerican.com/article/i-have-heard-people-call>

Section 3

Introduction

- Steigerwald, B. (2016). NASA discovers “Lonely Mountain” on Ceres likely a salty-mud cryovolcano. *NASA*. Retrieved from <https://www.nasa.gov/feature/goddard/2016/ceres-cryo-volcano>
- Wall, M. (2017). Lonely ice volcano on Ceres may have once had company. *Space.com*. Retrieved from <http://www.space.com/35571-ceres-ice-volcano-ahuna-mons.html>

Asteroids: The Real-Life Video Game

- Agle, D. C. (2017). Asteroid resembles Dungeons and Dragons dice. *NASA*. Retrieved from <https://www.nasa.gov/feature/jpl/asteroid-resemble-dungeons-and-dragons-dice>
- Brown, D., & Jones, N. N. (2014). NASA invites public to send names on an asteroid mission and beyond. *NASA*. Retrieved from <https://www.nasa.gov/press/2014/january/nasa-invites-public-to-send-names-on-an-asteroid-mission-and-beyond>
- Choi, C. Q. (2011). First asteroid companion of Earth discovered at last. *Space.com*. Retrieved from <http://www.space.com/12443-earth-asteroid-companion-discovered-2010-tk7.html>
- Cofield, C. (2015). Skull-shaped Halloween asteroid zips by Earth, a treat for scientists. *Space.com*. Retrieved from <http://www.space.com/30980-halloween-asteroid-flyby-a-science-treat.html>
- Daley, J. (2017). Ancient asteroid collision is still raining space rocks down on Earth. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/smart-news/ancient-asteroid-collision-still-raining-meteorites-earth-180961902>
- The Field Museum. (2017). *Today’s rare meteorites were once common*. Retrieved from <https://www.fieldmuseum.org/science/blog/todays-rare-meteorites-were-once-common>
- Hadhazy, A. (2011). The 7 strangest asteroids: Weird space rocks in our solar system. *Live Science*. Retrieved from <http://www.livescience.com/33389-strangest-asteroids-ceres-vesta-apophis.html>
- Handwerk, B. (2010). Water discovered on an asteroid—A first. *National Geographic*. Retrieved from <http://news.nationalgeographic.com/news/2010/04/100428-asteroid-water-first-ice-frost-themis>
- Heck, P. R., Schmitz, B., Bottke, W. F., Rout, S. S., Kita, N. T., Cronholm, A., . . . Terfelt, F. (2017). Rare meteorites common in the Ordovician period. *Nature Astronomy*, 1, 0035.

- Marchis, F. (2008). Two companions found near dog-bone asteroid. *Space.com*. Retrieved from <http://www.space.com/5925-companions-dog-bone-asteroid.html>
- Mathewson, S. (2016). How often do meteorites hit the Earth?. *Space.com*. Retrieved from <http://www.space.com/33695-thousands-meteorites-litter-earth-unpredictable-collisions.html>
- NASA. (n.d.). *Asteroids: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/asteroids/indepth>
- NASA. (2011). *Trojan asteroid shares orbit with Earth*. Retrieved from https://www.nasa.gov/mission_pages/WISE/news/wise20110727vid.html
- NASA. (2017). *OSIRIS-REx*. Retrieved from <https://www.nasa.gov/osiris-rex>
- Redd, N. (2015). Vesta: Facts about the brightest asteroid. *Space.com*. Retrieved from <http://www.space.com/12097-vesta-asteroid-facts-solar-system.html>
- Redd, N. T. (2017). Asteroid belt: Facts & formation. *Space.com*. Retrieved from <http://www.space.com/16105-asteroid-belt.html>
- Smithsonian National Air and Space Museum. (2012). How do we study asteroids? What are the merits to studying asteroids? *How Things Fly*. Retrieved from <http://howthingsfly.si.edu/ask-an-explainer/how-do-we-study-asteroids-what-are-merits-studying-asteroids>

Easy Comet, Easy Go

- Choi, C. Q. (2014). Comets: Facts about the 'dirty snowballs' of space. *Space.com*. Retrieved from <http://www.space.com/53-comets-formation-discovery-and-exploration.html>
- David, L. (2011). R.I.P. Stardust: NASA comet-visiting spacecraft ends 12-year mission. *Space.com*. Retrieved from <http://www.space.com/11226-nasa-stardust-spacecraft-mission-ends.html>
- De Sanctis, M. C., Capaccioni, M., Filacchione, G., Formisano, M., Mottola, S., Raponi, A., . . . Quirico, E. (2015). The diurnal cycle of water ice on comet 67P/Churyumov-Gerasimenko. *Nature*, 525, 500–503. doi:10.1038/nature14869
- Dickinson, T. (2013). The comet Kohoutek fiasco. *SkyNews*. Retrieved from <http://www.skynews.ca/kohoutek-fiasco>
- Dvorsky, G. (2016). All the incredible things we learned from our first trip to a comet. *Gizmodo*. Retrieved from <http://gizmodo.com/all-the-incredible-things-we-learned-from-our-first-tri-1787243767>
- Kortenkamp, S. (2008). *Asteroids, comets, and meteorites*. Mankato, MN: Capstone Press.
- NASA. (n.d.). *Comets: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/comets/indepth>
- NASA. (n.d.). *Oort cloud: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/oort/indepth>

- Phillips, T. (2011). Comet Lovejoy plunges into the sun and survives. *NASA*. Retrieved from https://science.nasa.gov/science-news/science-at-nasa/2011/16dec_cometlovejoy
- Steigerwald, B. (2009). NASA researchers make first discovery of life's building block in comet. *NASA Jet Propulsion Laboratory*. Retrieved from <http://stardust.jpl.nasa.gov/news/news115.html>

A Dwarf Is a Dwarf, of Course

- Billings, L. (2016). Scientists get to the bottom of the bright spots on Ceres. *Scientific American*. Retrieved from <https://www.scientificamerican.com/article/scientists-get-to-the-bottom-of-the-bright-spots-on-ceres>
- Choi, C. Q. (2015). Dwarf planet Pluto: Facts about the icy former planet. *Space.com*. Retrieved from <http://www.space.com/43-pluto-the-ninth-planet-that-was-a-dwarf.html>
- International Astronomical Union. (n.d.). *Resolution B5—Definition of a planet in the solar system and Resolution B6—Pluto*. Retrieved from https://www.iau.org/static/resolutions/Resolution_GA26-5-6.pdf
- Keeter, B. (Ed.). (2016). *Pluto 'paints' its largest moon red*. Retrieved from <https://www.nasa.gov/feature/pluto-paints-its-largest-moon-red>
- Morrow, A. (Ed.). (2016). Hubble discovers moon orbiting the dwarf planet Makemake. *NASA*. Retrieved from <https://www.nasa.gov/feature/goddard/2016/hubble-discovers-moon-orbiting-the-dwarf-planet-makemake>
- NASA. (n.d.). *Ceres: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/ceres/indepth>
- NASA. (n.d.). *Dwarf planets: Overview*. Retrieved from <https://solarsystem.nasa.gov/planets/dwarf>
- NASA. (n.d.). *Eris: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/eris/indepth>
- NASA. (n.d.). *Makemake: In depth*. Retrieved from <https://solarsystem.nasa.gov/planets/makemake/indepth>
- NASA. (n.d.). *Pluto: Overview: King of the Kuiper belt*. Retrieved from <https://solarsystem.nasa.gov/planets/pluto>
- NASA. (2015). *New Horizons: The first mission to the Pluto system and the Kuiper belt*. Retrieved from https://www.nasa.gov/mission_pages/newhorizons/overview/index.html
- NASA's Jet Propulsion Laboratory. (n.d.). *Welcome to the Dawn Mission!* Retrieved from <https://dawn.jpl.nasa.gov/mission>
- Space.com. (2006). Q&A: *The IAU's proposed planet definition*. Retrieved from <http://www.space.com/2743-iau-proposed-planet-definition.html>
- Timmer, J. (2016). Asteroid belt's only dwarf planet doesn't look like we expected. *Ars Technica*. Retrieved from <https://arstechnica.com/science/2016/06/dawn-sheds-light-on-the-bright-spots-interior-of-ceres>

- Williams, M. (2015). The dwarf planet Haumea. *Universe Today*. Retrieved from <https://www.universetoday.com/121851/the-dwarf-planet-haumea>
- Woo, M. (2015). Ceres: The planet that wasn't. *BBC Earth*. Retrieved from <http://www.bbc.com/earth/story/20150831-the-planet-that-wasnt>

Ice Capades or Ice Kuiperpades?

- European Space Agency. (2012). *Herschel spots comet massacre around nearby star*. Retrieved from http://www.esa.int/Our_Activities/Space_Science/Herschel/Herschel_spots_comet_massacre_around_nearby_star
- European Space Agency. (2013). *Herschel images extrasolar analogue of the Kuiper Belt*. Retrieved from <http://sci.esa.int/herschel/50254-herschel-image-of-fomalhaut-and-its-debris-disc>
- Fox, K. C. (2010). Kuiper belt of many colors. *NASA*. Retrieved from <https://www.nasa.gov/topics/solarsystem/sunearthssystem/main/kuiper-colors.html>
- Howell, E. (2014). Quaoar: Planetoid beyond Pluto. *Space.com*. Retrieved from <http://www.space.com/25817-quaoar.html>
- NASA. (n.d.). *Kuiper belt: Overview*. Retrieved from <https://solarsystem.nasa.gov/planets/kbos>
- Redd, N. T. (2016). Kuiper belt objects: Facts about the Kuiper belt & KBOs. *Space.com*. Retrieved from <http://www.space.com/16144-kuiper-belt-objects.html>
- Swinburne University of Technology. (n.d.). Kuiper belt objects. *Cosmos: The SAO Encyclopedia of Astronomy*. Retrieved from <http://astronomy.swin.edu.au/cosmos/K/Kuiper+Belt+Objects>
- Talbert, T. (Ed.). (2016). *New Horizons spies a Kuiper belt companion*. Retrieved from <https://www.nasa.gov/image-feature/new-horizons-spies-a-kuiper-belt-companion>
- Williams, M. (2016). The dwarf planet Quaoar. *Universe Today*. Retrieved from <https://www.universetoday.com/76906/quaoar>

The Kingdom of the Sun

- Cessna, A. (2015). Heliosphere. *Universe Today*. Retrieved from <https://www.universetoday.com/32519/heliosphere>
- Christian, E. R. (Ed.). (2012). *The heliosphere*. Retrieved from <https://helios.gsfc.nasa.gov/heliosph.html>
- Cole, S. (2013). NASA satellite provides first view of the solar system's tail. *NASA*. Retrieved from <https://www.nasa.gov/press/2013/july/nasa-satellite-provides-first-view-of-the-solar-systems-tail/#.WRCqXLMw8Z>
- Hathaway, D. H. (2017). Solar Physics: Marshall Space Flight Center. *NASA*. Retrieved from <https://solarscience.msfc.nasa.gov>

- Johns Hopkins University. (2009). New view of the heliosphere: Cassini helps redraw shape of solar system. *ScienceDaily*. Retrieved from <https://www.sciencedaily.com/releases/2009/10/091016101807.htm>
- NASA Science. (n.d.). *Heliosphere*. Retrieved from <https://science.nasa.gov/heliophysics/focus-areas/heliosphere>
- NASA's Jet Propulsion Laboratory. (2013). *How do we know when Voyager reaches interstellar space?* Retrieved from <https://www.jpl.nasa.gov/news/news.php?release=2013-278>
- NASA's Jet Propulsion Laboratory. (n.d.). *Voyager: The interstellar mission*. Retrieved from <https://voyager.jpl.nasa.gov>
- NASA's Jet Propulsion Laboratory. (n.d.). *Where are the Voyagers?*. Retrieved from <https://voyager.jpl.nasa.gov/where>
- Plait, P. (2014). *What's the quicker solar weight loss plan: Solar wind, or nuclear fusion?* [Web log post]. Retrieved from http://www.slate.com/blogs/bad_astronomy/2014/07/14/solar_wind_versus_fusion_how_does_the_sun_lose_mass.html
- Space Weather Prediction Center. (n.d.). Coronal holes. *National Oceanic and Atmospheric Administration*. Retrieved from <http://www.swpc.noaa.gov/phenomena/coronal-holes>
- Zell, H. (Ed.). (2013). *The heliosphere*. Retrieved from https://www.nasa.gov/mission_pages/sunearth/science/Heliosphere.html

Is That a Real Thing?: Planet X

- California Institute of Technology. (2016). Curious tilt of the sun traced to undiscovered planet. *Phys.org*. Retrieved from <https://phys.org/news/2016-10-curious-tilt-sun-undiscovered-planet.html>
- Emspak, J. (2015). A brief history of the hunt for Planet X. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/science-nature/brief-history-hunt-planet-x-180957551>
- Hand, E. (2016). Astronomers say a Neptune-sized planet lurks beyond Pluto. *Science*. Retrieved from <http://www.sciencemag.org/news/2016/01/feature-astronomers-say-neptune-sized-planet-lurks-unseen-solar-system>
- Kohlar, S. (2016). An update on Planet Nine. *AAS Nova*. Retrieved from <http://aasnova.org/2016/06/24/an-update-on-planet-nine>
- NASA. (n.d.). *Hypothetical 'Planet X': In depth*. Retrieved from <https://solar.system.nasa.gov/planets/planetx/indepth>
- Spanish Foundation for Science and Technology. (2016). Extreme trans-Neptunian objects lead the way to Planet Nine. *Phys.org*. Retrieved from <https://phys.org/news/2016-06-extreme-trans-neptunian-planet.html>
- Wall, M. (2016). 'Planet Nine' can't hide much longer, scientists say. *Space.com*. Retrieved from <http://www.space.com/34455-planet-nine-discovery-coming-soon.html>

Section 4

Introduction

- Hitt, D. (2006). Counting the stars. NASA. Retrieved from https://www.nasa.gov/audience/forstudents/5-8/features/F_Counting_the_Stars_5-12.html
- Sessions, L. (2016). Top 10 cool things about stars. *EarthSky*. Retrieved from <http://earthsky.org/space/ten-things-you-may-not-know-about-stars>

When You Squish Into a Star

- Chandra X-ray center. (2012). *Chandra X-ray Observatory: Brown dwarfs*. Retrieved from http://chandra.harvard.edu/xray_sources/browndwarf_fg.html
- European Space Agency. (n.d.). *The formation of stars*. Retrieved from https://www.spacetelescope.org/science/formation_of_stars
- Goldston, R. J., & Rutherford, P. H. (1995). *Introduction to plasma physics*. New York, NY: Taylor & Francis.
- NASA. (n.d.). *How hot can a star be? (and other star questions)*. Retrieved from <https://spaceplace.nasa.gov/review/dr-marc-space/stars.html>
- NASA. (2003). Stellar evolution - The birth, life, and death of a star. Retrieved from https://www.nasa.gov/audience/forstudents/9-12/features/stellar_evolution_feat_912.html
- NASA. (2016). *Galactic dust bunnies*. Retrieved from https://www.nasa.gov/multimedia/imagegallery/image_feature_541.html
- National Schools' Observatory. (2017). *Life cycle of a star*. Retrieved from <http://www.schoolsobservatory.org.uk/astro/stars/lifecycle>
- Sun.org. (2015). *Molecular clouds and dark nebulae*. Retrieved from <http://www.sun.org/encyclopedia/molecular-clouds-and-dark-nebulae>
- Swinburne University of Technology. (n.d.). Stellar evolution. *Cosmos: The SAO Encyclopedia of Astronomy*. Retrieved from <http://astronomy.swin.edu.au/cosmos/S/Stellar+Evolution>
- Williams, M. (2015). Plasma. *Universe Today*. Retrieved from <https://www.universetoday.com/84361/plasma>

All of the Stars of the Rainbow

- Aceves, A. V. (2016). Annie Jump Cannon: Star classifier. *Sky & Telescope*. Retrieved from <http://www.skyandtelescope.com/astronomy-resources/annie-jump-cannon-star-classifier>
- Cain, F. (2015). Carbon stars. *Universe Today*. Retrieved from <https://www.universetoday.com/25098/carbon-stars>

- Carlisle, C. M. (2013). The most distant star ever seen? *Sky & Telescope*. Retrieved from <http://www.skyandtelescope.com/astronomy-news/the-most-distant-star-everseen>
- Geiling, N. (2013). The women who mapped the universe and still couldn't get any respect. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/history/the-women-who-mapped-the-universe-and-still-couldnt-get-any-respect-9287444>
- Howell, E. (2013). Rigel: Orion's brightest star. *Space.com*. Retrieved from <http://www.space.com/22872-rigel.html>
- Howell, E. (2015). What is a Wolf-Rayet star? *Phys.org*. Retrieved from <https://phys.org/news/2015-02-wolf-rayet-star.html>
- Luhman, K. L. (2014). Discovery of a ~250k brown dwarf at 2 pc from the sun. *The Astrophysical Journal Letters*, 768, 1–6.
- MacRobert, A. (2006). The spectral types of stars. *Sky & Telescope*. Retrieved from <http://www.skyandtelescope.com/astronomy-resources/the-spectral-types-of-stars>
- NASA's Goddard Space Flight Center. (2006). *White dwarfs*. Retrieved from <https://imagine.gsfc.nasa.gov/science/objects/dwarfs1.html>
- The Nebraska Astronomy Applet Project. (n.d.). *Spectral classification of stars*. Retrieved from http://astro.unl.edu/naap/hr/hr_background1.html

The Twilight of Starlight

- Chandra X-ray Center. (2013). *Chandra X-ray Observatory: Stellar evolution*. Retrieved from http://chandra.harvard.edu/xray_sources/stellar_evolution.html
- May, S. (Ed.). (2015). *What is a supernova?* Retrieved from <https://www.nasa.gov/audience/forstudents/5-8/features/nasa-knows/what-is-a-supernova.html>
- NASA. (n.d.). *Black holes*. Retrieved from <https://science.nasa.gov/astrophysics/focus-areas/black-holes>
- NASA's Goddard Space Flight Center. (2006). *Neutron stars and pulsars*. Retrieved from <https://imagine.gsfc.nasa.gov/science/objects/pulsars1.html.old>
- NASA's Goddard Space Flight Center. (2006). *White dwarfs*. Retrieved from <https://imagine.gsfc.nasa.gov/science/objects/dwarfs1.html>
- Redd, N. T. (2013). Black dwarf stars: The (theoretical) end of stellar evolution. *Space.com*. Retrieved from <http://www.space.com/23799-black-dwarfs.html>
- Redd, N. T. (2015). Main sequence stars: Definition & life cycle. *Space.com*. Retrieved from <http://www.space.com/22437-main-sequence-stars.html>
- Richmond, M. (n.d.). *Late stages of evolution for low-mass stars*. Retrieved from <http://spiff.rit.edu/classes/phys230/lectures/planneb/planneb.html>
- Swinburne University of Technology. (n.d.). Stellar evolution. *Cosmos: The SAO Encyclopedia of Astronomy*. Retrieved from <http://astronomy.swin.edu.au/cosmos/S/Stellar+Evolution>

- Templeton, M. (2010). Stellar evolution. AAVSO. Retrieved from <https://www.aavso.org/stellar-evolution>
- Thompson, A. (2014). What is a supernova? *Space.com*. Retrieved from <http://www.space.com/6638-supernova.html>

Everything Under the Sun

- Choi, C. Q. (2014). Earth's sun: Facts about the sun's age, size and history. *Space.com*. Retrieved from <http://www.space.com/58-the-sun-formation-facts-and-characteristics.html>
- Encyclopedia Britannica. (2017). *Sundial: Timekeeping device*. Retrieved from <https://www.britannica.com/technology/sundial>
- Fox, K. C. (2011). Celebrating 400 years of sunspot observations. NASA. Retrieved from https://www.nasa.gov/mission_pages/sunearth/news/400yrs-spots.html
- Fox, K. C. (2015). Strong evidence for coronal heating theory presented at 2015 TESS meeting. NASA. Retrieved from <https://www.nasa.gov/feature/goddard/sounding-rockets/strong-evidence-for-coronal-heating-theory-presented-at-2015-tess-meeting>
- Fox, K. C. (2016). NASA: Solar storms may have been key to life on Earth. NASA. Retrieved from <https://www.nasa.gov/feature/goddard/2016/nasa-solar-storms-may-have-been-key-to-life-on-earth>
- Gleber, M. (2014). CME week: The difference between flares and CMEs. NASA. Retrieved from <https://www.nasa.gov/content/goddard/the-difference-between-flares-and-cmes>
- NASA. (n.d.). *Sun: Overview: Our star*. Retrieved from <https://solarsystem.nasa.gov/planets/sun>
- NASA. (2016). *Sun 'heat bombs' its atmosphere, evidence found* [Video file]. Retrieved from <http://www.space.com/34873-sun-heat-bombs-its-atmosphere-evidence-found-video.html>
- New Scientist. (2010). *Sun spots* [Video file]. Retrieved from <https://www.youtube.com/watch?v=vsULoSebWnE>
- Phillips, T. (2013). The sun's magnetic field is about to flip. *NASA Science*. Retrieved from https://science.nasa.gov/science-news/science-at-nasa/2013/05aug_fieldflip
- Rosen, R. J. (2013). NASA releases stunning video of 'fiery looping rain on the sun.' *The Atlantic*. Retrieved from <https://www.theatlantic.com/technology/archive/2013/02/nasa-releases-stunning-video-of-fiery-looping-rain-on-the-sun/273397>
- Sharp, T. (2012). How hot is the sun? *Space.com*. Retrieved from <http://www.space.com/17137-how-hot-is-the-sun.html>

- Sharp, T. (2013). Atmosphere of the sun: Photosphere, chromosphere & corona. *Space.com*. Retrieved from <http://www.space.com/17160-sun-atmosphere.html>
- Stubenrauch, C. (2016). 1967 solar flare nearly took U.S. and Soviets to brink of war. *Sky & Telescope*. Retrieved from <http://www.skyandtelescope.com/astronomy-news/1967-solar-storm-nearly-took-us-soviets-brink-war>
- University of Oslo. (2011). How the northern lights are created [Video file]. Retrieved from <https://www.youtube.com/watch?v=1MI3YDGgtN4>
- Wall, M. (2015). 5-million-degree plasma 'tornado' rages on the sun (video). *Space.com*. Retrieved from <http://www.space.com/30498-solar-tornado-nasa-sdo-video.html>

Hollywood Stars

- Encyclopedia Britannica. (2017). *Dog days: Meteorology*. Retrieved from <https://www.britannica.com/science/dog-days>
- Encyclopedia Britannica. (2017). *Sirius: Star*. Retrieved from <https://www.britannica.com/place/Sirius-star>
- Gaherty, G. (2009). Seeing double: When one star is really two. *Space.com*. Retrieved from <http://www.space.com/6823-double-star.html>
- Howell, E. (2015). What are the most famous stars? *Universe Today*. Retrieved from <https://www.universetoday.com/45775/famous-stars>
- King, B. (2015). Mizar—A fresh look at an old friend. *Sky & Telescope*. Retrieved from <http://www.skyandtelescope.com/observing/mizar-a-fresh-look-at-an-old-friend03252015>
- McClure, B. (2017). Mizar and Alcor, a famous double star. *EarthSky*. Retrieved from <http://earthsky.org/brightest-stars/mizar-and-alcor-the-horse-and-rider>
- McClure, B., & Byrd, D. (2016). Gamma Cephei: A future pole star. *Earthsky.org*. Retrieved from <http://earthsky.org/brightest-stars/star-errai-future-north-star>
- Phys.org. (2016). Famous red star Betelgeuse is spinning faster than expected; may have swallowed a companion 100,000 years ago. Retrieved from <https://phys.org/news/2016-12-famous-red-star-betelgeuse-faster.html>
- Sessions, L. (2017). Antares is heart of the Scorpion. *EarthSky*. Retrieved from <http://earthsky.org/brightest-stars/antares-rivals-mars-as-the-scorpions-heart>
- Sessions, L. (2017). Vega is the harp star. *EarthSky*. Retrieved from <http://earthsky.org/brightest-stars/vega-brilliant-blue-white-is-third-brightest-star>
- Than, K. (2006). Rapid rotation distorts bright star Vega. *Space.com*. Retrieved from <http://www.space.com/1930-rapid-rotation-distorts-bright-star-vega.html>

University of Southern Maine. (n.d.). Planetarium: “Is it true that Vega will be our next North Star?” Retrieved from <https://usm.maine.edu/planet/it-true-vega-will-be-our-next-north-star>

Is That a Real Thing?: Killer Solar Flares

Fox, K. C. (2011). 2012: Killer solar flares are a physical impossibility. NASA. Retrieved from <https://www.nasa.gov/topics/earth/features/2012-super-flares.html>

Wall, M. (2011). Killer solar flare won't destroy Earth in 2012, NASA says. *Space.com*. Retrieved from <http://www.space.com/13587-killer-solar-storm-earth-2012-nasa.html>

Wall, M. (2011). Sun unleashes massive solar flares in one-two punch. *Space.com*. Retrieved from <http://www.space.com/12847-sun-unleashes-massive-solar-flares.html>

Section 5

Introduction

Masetti, M. (2016). The Cosmic Distance Scale. NASA. Retrieved from <https://imagine.gsfc.nasa.gov/features/cosmic>

NASA's Jet Propulsion Laboratory. (n.d.). *Voyager: The interstellar mission*. Retrieved from <https://voyager.jpl.nasa.gov>

The Diary of a Not-So-Wimpy Galaxy

Byrd, D. (2014). Which spiral arm of the Milky Way contains our sun? *Earthsky.org*. Retrieved from <http://earthsky.org/space/does-our-sun-reside-in-a-spiral-arm-of-the-milky-way-galaxy>

Drake, N. (2014). Milky Way has 4 billion years to live—but our sun will survive. *Phenomena*. Retrieved from <http://phenomena.nationalgeographic.com/2014/03/24/scientists-predict-our-galaxys-death>

Encyclopedia Britannica. (n.d.). *Globular cluster*. Retrieved from <https://www.britannica.com/topic/globular-cluster>

Fazekas, A. (2014). Monsters gobble galaxies to grow. *National Geographic*. Retrieved from <http://voices.nationalgeographic.com/2014/09/24/monsters-gobble-galaxies-to-grow>

Howell, E. (2015). Globular clusters: Dense groups of stars. *Space.com*. Retrieved from <http://www.space.com/29717-globular-clusters.html>

Marschall, L. A. (n.d.). How did scientists determine our location within the Milky Way galaxy—in other words, how do we know that our solar sys-

- tem is in the arm of a spiral galaxy, far from the galaxy's center? *Scientific American*. Retrieved from <https://www.scientificamerican.com/article/how-did-scientists-determ>
- Masters, K. (2015). Where does the name "Milky Way" come from? (Beginner). *Ask an Astronomer*. Retrieved from <http://curious.astro.cornell.edu/about-us/93-the-universe/the-milky-way/general-questions/504-where-does-the-name-milky-way-come-from-beginner>
- Museo Nacional del Prado. (n.d.). *The birth of the Milky Way*. Retrieved from <https://www.museodelprado.es/en/the-collection/art-work/the-birth-of-the-milky-way/c7369ad2-f0ae-4d5d-bb23-21f51bd3283c>
- Naeye, R. (2003). The newest closest galaxy. *Sky & Telescope*. Retrieved from <http://www.skyandtelescope.com/astronomy-news/the-newest-closest-galaxy>
- NASA's Goddard Space Flight Center. (2015). *The Milky Way galaxy*. Retrieved from <https://imagine.gsfc.nasa.gov/science/objects/milkyway1.html>
- The National Gallery. (n.d.). *The origin of the Milky Way*. Retrieved from <https://www.nationalgallery.org.uk/paintings/jacopo-tintoretto-the-origin-of-the-milky-way>
- Nbodyshop. (2008). *The formation of a Milky Way-like galaxy* [Video file]. Retrieved from https://www.youtube.com/watch?v=nOjRObc7_xo
- Redd, N. T. (2013). Milky Way galaxy: Facts about our galactic home. *Space.com*. Retrieved from <http://www.space.com/19915-milky-way-galaxy.html>
- Schultz, C. (2014). This is how the Milky Way will end. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/smart-news/how-milky-way-will-end-180952852>
- Stromberg, J. (2013). African dung beetles navigate at night using the Milky Way. *Smithsonian*. Retrieved from <http://www.smithsonianmag.com/science-nature/african-dung-beetles-navigate-at-night-using-the-milky-way-5582232>
- Wethington, N. (2016). The Milky Way and Andromeda. *Universe Today*. Retrieved from <https://www.universetoday.com/22821/the-milky-way-and-andromeda>
- Zell, H. (Ed.). (2015). Milky Way and our location. NASA. Retrieved from https://www.nasa.gov/mission_pages/sunearth/news/gallery/galaxy-location.html

The Making of a Galactic Loop-de-Loop

- Blakemore, E. (2016). Marvel at the newest map of the Milky Way. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/smart-news/marvel-newest-map-milky-way-180958206>
- Carlisle, C. M. (2016). Why galaxies have spiral arms. *Sky & Telescope*. Retrieved from <http://www.skyandtelescope.com/astronomy-news/galaxies-spiral-arms-2908201623>

- Chou, F. (2016). Astronomers discover dizzying spin of the Milky Way galaxy's "halo". *NASA*. Retrieved from <https://www.nasa.gov/feature/goddard/2016/astronomers-discover-dizzying-spin-of-the-milky-way-galaxy-s-halo>
- Cool Cosmos. (2013). *The galactic center*. Retrieved from http://coolcosmos.ipac.caltech.edu/page/galactic_center
- Griffiths, J. (2016). Astronomers unveil incredibly detailed new Milky Way map. *CNN*. Retrieved from <http://www.cnn.com/2016/10/19/world/milky-way-hydrogen-galaxy-map>
- Klesman, A. (2017). Hubble solves the mystery bulge at the center of the Milky Way. *Astronomy Magazine*. Retrieved from <http://www.astronomy.com/news/2017/03/fermi-bubbles>
- Landers, J. (2016). Solving the mystery of the Milky Way's missing mass. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/smithsonian-institution/solving-mystery-milky-ways-missing-mass-180960297>
- Lewis, D. (2016). This breathtaking map traces hydrogen throughout the Milky Way. *Smithsonian.com*. Retrieved from <http://www.smithsonianmag.com/smart-news/map-leads-way-milky-ways-hydrogen-atoms-180960873>
- NASA. (n.d.). Frequently asked questions. *Hubblesite*. Retrieved from http://hubblesite.org/reference_desk/faq/category.php.cat=hubblesite
- NASA. (2015). *The Milky Way's 100 billion planets*. Retrieved from https://www.nasa.gov/multimedia/imagegallery/image_feature_2233.html
- Redd, N. T. (2013). Milky Way galaxy: Facts about our galactic home. *Space.com*. Retrieved from <http://www.space.com/19915-milky-way-galaxy.html>
- Sky & Telescope. (2015). Q&A: Understanding the Fermi bubbles. Retrieved from <http://www.skyandtelescope.com/astronomy-resources/understanding-fermi-bubbles>
- Space.com. (2013). *Milky Way home to 100 billion planets*. Retrieved from <http://www.space.com/19103-milky-way-100-billion-planets.html>
- Wall, M. (2017). The exoplanet revolution turns 25. *Scientific American*. Retrieved from <https://www.scientificamerican.com/article/the-exoplanet-revolution-turns-25>

Great Galactic Globbs of Gas

- Astronomy Magazine*. (2017). *Celebrate Supernova 1987A's 30th birthday with a stellar image set*. Retrieved from <http://www.astronomy.com/news/2017/02/happy-birthday-supernova-1987a>
- Chandra X-ray Center. (2016). *Tycho's supernova remnant: Chandra movie captures expanding debris from a stellar explosion*. Chandra X-ray Observatory. Retrieved from <http://chandra.harvard.edu/photo/2016/tycho>
- Crew, B. (2017). There's a massive, glowing blob in the universe, and a mystery source is lighting it up. *ScienceAlert*. Retrieved from <http://www.scienc>

- ealert.com/there-s-a-massive-glowing-blob-in-the-universe-and-mystery-source-is-lighting-it-up
- Howell, E. (2013). Spooky nebula is coldest known object in universe (photo). *Space.com*. Retrieved from <http://www.space.com/23367-spooky-nebula-coldest-object-universe-photo.html>
- Lewin, S. (2016). This deepest view ever of the Orion nebula reveals hidden objects. *Space.com*. Retrieved from <http://www.space.com/33392-orion-nebula-deepest-view-yet-photos-video.html>
- McClure, B. (2017). Orion nebula: Where stars are born. *EarthSky*. <http://earthsky.org/clusters-nebulae-galaxies/orion-nebula-jewel-in-orions-sword>
- NASA. (2013). *Kepler supernova remnant*. Retrieved from https://www.nasa.gov/mission_pages/chandra/multimedia/kepler2013.html
- NASA. (2015). *Oldest recorded supernova*. Retrieved from https://www.nasa.gov/multimedia/imagegallery/image_feature_2173.html
- NASA's Goddard Space Flight Center. (2011). *Supernova remnants*. Retrieved from https://imagine.gsfc.nasa.gov/science/objects/supernova_remnants.html
- Norman, A. (2017). Hubble captures death of star in 'rotten egg' nebula. *Tech Times*. Retrieved from <http://www.techtimes.com/articles/195956/20170205/hubble-captures-death-of-star-in-rotten-egg-nebula.htm>
- Pappas, S. (2017). Strange new nebula is missing its light source. *Live Science*. Retrieved from <http://www.livescience.com/58108-strange-new-nebula-missing-light-source.html>
- Sci-News.com. (2013). *Boomerang nebula: Astronomers observe coldest place in universe*. Retrieved from <http://www.sci-news.com/astronomy/science-boomerang-nebula-01493.html>
- Scoles, S. (2015). *The "Pillars Of Creation" have already been destroyed* [Web log post]. *Discover*. Retrieved from <http://blogs.discovermagazine.com/cruX/2015/01/06/pillars-of-creation-destroyed/#.WSg0DTPMw8Y>
- Tate, J. (2015). Dark nebula. *Universe Today*. Retrieved from <https://www.universetoday.com/61461/dark-nebula>
- Universidad de Barcelona. (2012). Supernova SN 1006: Cause of brightest stellar event in recorded history illuminated. *ScienceDaily*. Retrieved from <https://www.sciencedaily.com/releases/2012/09/120927091538.htm>
- Young, M. (2012). A black hole in Orion? *Sky & Telescope*. Retrieved from <http://www.skyandtelescope.com/astronomy-news/a-black-hole-in-orion>

Our Crazy Exo-Girlfriends and Boyfriends

- Cool Cosmos. (2013). *Exoplanets*. Retrieved from <http://coolcosmos.ipac.caltech.edu/page/exoplanets>
- Hadhazy, A. (2008). Top 10 exoplanets: Weird worlds in a galaxy not so far away (slide show). *Scientific American*. Retrieved from <https://www.scientificamerican.com/article/top-10-exoplanets>

- Howell, E. (2016). Kepler-22B: Facts about exoplanet in habitable zone. *Space.com*. Retrieved from <http://www.space.com/24128-kepler-22b.html>
- NASA. (2015). *20 intriguing exoplanets*. Retrieved from <https://www.nasa.gov/feature/jpl/20-intriguing-exoplanets>
- NASA. (2016). *NASA's Kepler mission discovers a world orbiting two stars*. Retrieved from https://www.nasa.gov/mission_pages/kepler/news/kepler-16b.html
- NASA. (2017). *NASA telescope reveals largest batch of Earth-size, habitable-zone planets around a single star*. Retrieved from <https://www.nasa.gov/press-release/nasa-telescope-reveals-largest-batch-of-earth-size-habitable-zone-planets-around>
- O'Neill, I. (2014). *Weird loner exoplanet orbits far from its star*. *Space.com*. Retrieved from <http://www.space.com/25896-exoplanet-orbits-far-from-star.html>
- Redd, N. T. (2014). *New 'gas dwarf' class of alien planets revealed*. *Space.com*. Retrieved from <http://www.space.com/26087-gas-dwarf-alien-planets-aas224.html>
- Wenz, J. (2015). *The 9 wildest and most wonderful planets in the Milky Way*. *Popular Mechanics*. Retrieved from <http://www.popularmechanics.com/space/g2227/the-weird-the-wild-the-wonderful-exoplanets-of-the-milky-way>

The Milky Way's Weirdest

- Carlidge, E. (2017). *Case weakens for antimatter sign of dark matter*. *Science*. Retrieved from <http://www.sciencemag.org/news/2017/03/case-weakens-antimatter-sign-dark-matter>
- CSIRO Australia. (2016). *Dark 'noodles' may lurk in the Milky Way*. *EurekaAlert!* Retrieved from https://www.eurekaalert.org/pub_releases/2016-01/cadm011416.php
- Drake, N. (2014). *A guide to lonely planets in the galaxy*. *Phenomena*. Retrieved from <http://phenomena.nationalgeographic.com/2014/03/13/a-guide-to-lonely-planets-in-the-galaxy>
- European Space Agency. (2008). *Integral discovers the galaxy's antimatter cloud is lopsided*. Retrieved from http://www.esa.int/Our_Activities/Space_Science/Integral/Integral_discovers_the_galaxy_s_antimatter_cloud_is_lopsided
- Fazekas, A. (2014). *Astronomers spy monster star merger on the move*. *National Geographic*. Retrieved from <http://news.nationalgeographic.com/news/2014/12/141209-starstruck-monster-star-merger-space-astronomy-science>
- Gundy, C. (2011). *NASA's Hubble finds rare 'blue straggler' stars in Milky Way's hub*. NASA. Retrieved from https://www.nasa.gov/mission_pages/hubble/science/blue-straggler.html
- Naeye, R., & Gutro, R. (2008). *Vast cloud of antimatter traced to binary stars*. NASA. Retrieved from https://www.nasa.gov/centers/goddard/news/top-story/2007/antimatter_binary.html

- Royal Astronomical Society. (2013). *Astronomers discover unusual stars with extremely high concentrations of lead in their atmospheres*. Retrieved from <https://scitechdaily.com/astronomers-discover-unusual-stars-with-extremely-high-concentrations-of-lead-in-their-atmospheres>
- Skibba, R. (2017). The hunt for rogue planets just got tougher. *Nature*. Retrieved from <http://www.nature.com/news/the-hunt-for-rogue-planets-just-got-tougher-1.21445>
- University of Colorado at Boulder. (2014). Astronomers discover first Thorne-Zytkow object, a bizarre type of hybrid star. *EurekaAlert!* Retrieved from https://www.eurekaalert.org/pub_releases/2014-06/uoca-adf060414.php

Is That a Real Thing?: Astrology

- Choi, C. Q. (2012). Being born in winter can mess with your head. *Live Science*. Retrieved from <http://www.livescience.com/20237-birth-season-mental-disorders.html>
- European College of Neuropsychopharmacology. (2014). Birth season affects your mood in later life. *EurekaAlert!*. Retrieved from https://www.eurekaalert.org/pub_releases/2014-10/econ-bsa101714.php
- Gavrilov, L. A., & Gavrilova, N. S. (2011). Season of birth and exceptional longevity: Comparative study of American centenarians, their siblings, and spouses. *Journal of Aging Research*. doi:10.4061/2011/104616
- Tonetti, L., Fabbri, M., & Natale, V. (2009). Season of birth and personality in healthy young adults. *Neuroscience Letters*, 452, 185–188. doi:10.1016/j.neulet.2009.01.055
- Vanderbilt University. (2010). Season of birth may have long-term effects on personality, study suggests. *ScienceDaily*. Retrieved from <https://www.sciencedaily.com/releases/2010/12/101205202510.htm>
- Welsh, J. (2011). Season of birth may affect the rest of your life. *Live Science*. Retrieved from <http://www.livescience.com/13958-birth-month-health-effects.html>

Section 6

Introduction

- Biron, L. (2015). Our flat universe. *Symmetry Magazine*. Retrieved from <http://www.symmetrymagazine.org/article/april-2015/our-flat-universe>
- NASA. (2014). *Will the universe expand forever?* Retrieved from https://map.gsfc.nasa.gov/universe/uni_shape.html

The Galaxy Menagerie

- Cain, F. (2015). Galaxy cluster. *Universe Today*. Retrieved from <https://www.universetoday.com/30522/galaxy-cluster>
- Choi, C. Q. (2014). New galactic supercluster map shows Milky Way's 'heavenly' home. *Space.com*. Retrieved from <http://www.space.com/27016-galaxy-supercluster-laniakea-milky-way-home.html>
- Constellation Guide. (2014). *Cartwheel galaxy*. Retrieved from <http://www.constellation-guide.com/cartwheel-galaxy>
- Drake, N. (2014). Milky Way has 4 billion years to live—but our sun will survive. *Phenomena*. Retrieved from <http://phenomena.nationalgeographic.com/2014/03/24/scientists-predict-our-galaxys-death>
- European Space Agency. (2016). Hubble finds a lenticular galaxy stands out in the crowd. *NASA*. Retrieved from <https://www.nasa.gov/feature/goddard/2016/hubble-finds-a-lenticular-galaxy-standing-out-in-the-crowd>
- Groshong, K. (2006). Strange satellite galaxies revealed around Milky Way. *New Scientist*. Retrieved from <https://www.newscientist.com/article/dn9043-strange-satellite-galaxies-revealed-around-milky-way>
- NASA. (n.d.). *Galaxies*. Retrieved from <https://science.nasa.gov/astrophysics/focus-areas/what-are-galaxies>
- NASA. (2016). *Hubble reveals observable universe contains 10 times more galaxies than previously thought*. Retrieved from <https://www.nasa.gov/feature/goddard/2016/hubble-reveals-observable-universe-contains-10-times-more-galaxies-than-previously-thought>
- National Geographic. (n.d.). *Galaxies*. Retrieved from <http://www.nationalgeographic.com/science/space/universe/galaxies>
- Sales, L. (n.d.). *Dwarf galaxies*. Retrieved from <https://www.cfa.harvard.edu/~lsales/DwarfGalaxies.html>
- Sloan Digital Sky Survey. (n.d.). *Galaxies*. Retrieved from <http://skyserver.sdss.org/dr1/en/proj/advanced/galaxies>
- Space Facts. (2017). *Galaxy facts*. Retrieved from <http://space-facts.com/galaxies>
- Wall, M. (2013). Hubble telescope reveals Milky Way galaxy's cannibal past. *Space.com*. Retrieved from <http://www.space.com/19964-milky-way-galaxy-cannibalism-hubble.html>

None More Black

- Fazekas, A. (2013). Scientists unravel secrets of monster black hole at center of Milky Way. *National Geographic*. Retrieved from <http://news.nationalgeographic.com/news/2013/09/130924-supermassive-black-hole-milky-way-space>
- Harvard-Smithsonian Center for Astrophysics. (n.d.). *HEA research: Stellar black holes*. Retrieved from <https://www.cfa.harvard.edu/hea/ea/sbh.html>

- Merali, Z. (2013). Astrophysics: Fire in the hole! *Nature*. Retrieved from <http://www.nature.com/news/astrophysics-fire-in-the-hole-1.12726>
- Moskowitz, C. (2009). New study finds middle child of black hole family. *Space.com*. Retrieved from <http://www.space.com/7512-study-finds-middle-child-black-hole-family.html>
- NASA. (n.d.). *Black holes*. Retrieved from <https://science.nasa.gov/astrophysics/focus-areas/black-holes>
- Redd, N. T. (2015). Black holes: Facts, theory & definition. *Space.com*. Retrieved from <http://www.space.com/15421-black-holes-facts-formation-discovery-sdcmp.html>
- Riley, K. (2017). We may finally get a picture of a black hole. *Futurism*. Retrieved from <https://futurism.com/we-may-finally-get-a-picture-of-a-black-hole>
- Space.com. (2007). *Massive stellar black hole smashes record*. Retrieved from <http://www.space.com/4580-massive-stellar-black-hole-smashes-record.html>
- The StarChild Team. (n.d.). Quasars. NASA. Retrieved from https://starchild.gsfc.nasa.gov/docs/StarChild/universe_level2/quasars.html
- Williams, M. (2016). What are active galactic nuclei? *Universe Today*. Retrieved from <https://www.universetoday.com/30719/active-galactic-nuclei>

A Quirky, Kooky Cosmos

- Andrews, B. (2017). Fast radio bursts now a bit less mysterious. *Astronomy Magazine*. Retrieved from <http://www.astronomy.com/news/2017/01/fast-radio-bursts-now-a-bit-less-mysterious>
- CERN. (2017). *Cosmic rays: Particles from outer space*. Retrieved from <https://home.cern/about/physics/cosmic-rays-particles-outer-space>
- CERN. (2017). *Dark matter*. Retrieved from <http://home.cern/about/physics/dark-matter>
- Chow, D. (2011). 'Jaw-dropping!' Crab Nebula's powerful beams shock astronomers. *Space.com*. Retrieved from <http://www.space.com/13204-crab-nebula-high-energy-pulsar-beam.html>
- Crockett, C. (2016). More fast radio bursts detected from same location. *Science News*. Retrieved from <https://www.sciencenews.org/article/more-fast-radio-bursts-detected-same-location>
- EarthSky. (2015). *What is dark energy?* Retrieved from <http://earthsky.org/space/what-is-dark-energy>
- Kavli Institute for Particle Astrophysics and Cosmology. (n.d.). *Neutron stars and pulsars*. Retrieved from http://kipac-web.stanford.edu/research/Neutronstarts_Pulsars
- NASA. (2014). *What is the universe made of?* Retrieved from https://wmap.gsfc.nasa.gov/universe/uni_matter.html
- NASA. (2017). *Neutron stars*. Retrieved from https://imagine.gsfc.nasa.gov/science/objects/neutron_stars1.html

- NASA's Goddard Space Flight Center. (2006). *Neutron stars and pulsars*. Retrieved from <https://imagine.gsfc.nasa.gov/science/objects/pulsars1.html.old>
- O'Neill, I. (2016). Alien 'wow!' signal could soon be explained. *Space.com*. Retrieved from <http://www.space.com/32609-alien-wow-signal-could-soon-be-explained.html>
- University of Virginia. (n.d.). *Chapter 2. Atomic structure and bonding*. Retrieved from <http://www.virginia.edu/bohr/mse209/chapter2.htm>
- Villanueva, J. C. (2015). How many atoms are there in the universe? *Universe Today*. Retrieved from <https://www.universetoday.com/36302/atoms-in-the-universe>
- Wolchover, N. (2015). The particle that broke a cosmic speed limit. *Quanta Magazine*. Retrieved from <https://www.quantamagazine.org/20150514-the-particle-that-broke-a-cosmic-speed-limit>

Congratulations! It's a Universe!

- Dreifus, C. (2014). How two pigeons helped scientists confirm the Big Bang theory. *Smithsonian*. Retrieved from <http://www.smithsonianmag.com/smithsonian-institution/how-scientists-confirmed-big-bang-theory-owe-it-all-to-a-pigeon-trap-180949741>
- Encyclopedia Britannica. (2012). *Georges Lemaitre: Belgian astronomer*. Retrieved from <https://www.britannica.com/biography/Georges-Lemaitre>
- European Space Agency. (n.d.). *Edwin Powell Hubble - The man who discovered the cosmos*. Retrieved from https://www.spacetelescope.org/about/history/the_man_behind_the_name
- Howell, E. (2017). What is the Big Bang theory? *Space.com*. Retrieved from <http://www.space.com/25126-big-bang-theory.html>
- Koren, M. (2017). How fast is the universe expanding? *The Atlantic*. Retrieved from <https://www.theatlantic.com/science/archive/2017/01/does-anyone-have-a-measuring-tape/503537>
- Mohon, L. (Ed.). (2016). Glow from the Big Bang allows discovery of distant black hole jet. *NASA*. Retrieved from https://www.nasa.gov/mission_pages/chandra/glow-from-the-big-bang-allows-discovery-of-distant-black-hole-jet.html
- NASA. (n.d.). *The Big Bang*. Retrieved from <https://science.nasa.gov/astrophysics/focus-areas/what-powered-the-big-bang>
- NASA. (2013). *Universe older than previously thought*. Retrieved from https://science.nasa.gov/science-news/science-at-nasa/2013/21mar_cmb
- NASA. (2016). *Tests of Big Bang: The CMB*. Retrieved from https://map.gsfc.nasa.gov/universe/bb_tests_cmb.html
- Soter, S., & deGrasse Tyson, N. (2000). *Profile: Georges Lemaitre, father of the Big Bang*. Retrieved from <http://www.amnh.org/explore/resource-collections/cosmic-horizons/profile-georges-lemaitre-father-of-the-big-bang>

Where No One Has Gone Before

- European Space Agency. (2016). *Observable universe contains ten times more galaxies than previously thought*. Retrieved from <https://www.spacetelescope.org/news/heic1620>
- Masters, K. (2015). Why is looking out into space the same as looking back in time? (Beginner). *Ask an Astronomer*. Retrieved from <http://curious.astro.cornell.edu/about-us/133-physics/general-physics/general-questions/835-why-is-looking-out-into-space-the-same-as-looking-back-in-time-beginner>
- Moskowitz, C. (2011). What's 96 percent of the universe made of? Astronomers don't know. *Space.com*. Retrieved from <http://www.space.com/11642-dark-matter-dark-energy-4-percent-universe-panek.html>
- National Geographic. (n.d.). *Dark matter and dark*. Retrieved from <http://www.nationalgeographic.com/science/space/dark-matter>
- Reddy, F. (2016). NASA scientist suggests possible link between primordial black holes and dark matter. *NASA*. Retrieved from <https://www.nasa.gov/feature/goddard/2016/nasa-scientist-suggests-possible-link-between-primordial-black-holes-and-dark-matter>

Is That a Real Thing?: Black Hole Sucking Up the Earth

- Jaggard, V. (2009). Why black holes don't suck. *National Geographic*. Retrieved from http://voices.nationalgeographic.com/2009/06/23/why_black_holes_dont_suck
- Pappas, S. (2012). Atom smasher won't create planet-eating black hole, court says. *Space.com*. Retrieved from <http://www.space.com/18143-atom-smasher-court-black-holes.html>