Table 1. E5 Unit Outline

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| **5E** | **Essential Question Focus** | **NASA Resources** |
| **Engage:** Is there another Earth? | (1) Are there other Earth-like planets in the universe? | [NASA Exoplanet Exploration](https://exoplanets.nasa.gov/)  [NASA What is an Exoplanet?](https://exoplanets.nasa.gov/what-is-an-exoplanet/overview/) |
| **Explore:** Types of stars & Goldilocks zone | (2) Which type(s) of star(s) would be the best candidates for having habitable, Earth-like planets orbiting them?  (3) How does orbit shape and location affect if an exoplanet can be habitable? | [NASA What is an Exoplanet? - Stars](https://exoplanets.nasa.gov/what-is-an-exoplanet/stars/)  [NASA The Search For Life (Habitable Zone)](https://exoplanets.nasa.gov/search-for-life/habitable-zone/) |
| **Explain:** Exoplanets & Habitability | (4) Which characteristics of exoplanets make them more or less suitable for supporting life? | [NASA What is an Exoplanet? - Planet Types](https://exoplanets.nasa.gov/what-is-an-exoplanet/planet-types/overview/)  [NASA Planet Hunter Finds its 1st Earth-size Habitable-zone World](https://www.nasa.gov/feature/goddard/2020/nasa-planet-hunter-finds-its-1st-earth-size-habitable-zone-world) |
| **Elaborate**: Exoplanet Detection Methods & Eccentricity | (1) Are there other Earth-like planets in the universe? | [NASA 5 Ways to Find an Exoplanet](https://exoplanets.nasa.gov/alien-worlds/ways-to-find-a-planet/)  [NASA Exoplanet Travel Bureau](https://exoplanets.nasa.gov/alien-worlds/exoplanet-travel-bureau/) |
| **Evaluate:** Exoplanet Project | Summative Assessment CER Scientific Question: Based on current scientific evidence, which exoplanet in the NASA Exoplanet Catalog has a high probability of being habitable by humans and should be investigated further? | [NASA Exoplanet Catalog](https://exoplanets.nasa.gov/discovery/exoplanet-catalog/)  [How do exoplanets get their names?](https://exoplanets.nasa.gov/faq/20/how-do-exoplanets-get-their-names/)  [NASA’s Exoplanet Glossary](https://exoplanets.nasa.gov/glossary/)  [NASA’s Frequently Asked Questions about Exoplanets](https://exoplanets.nasa.gov/faq/) |