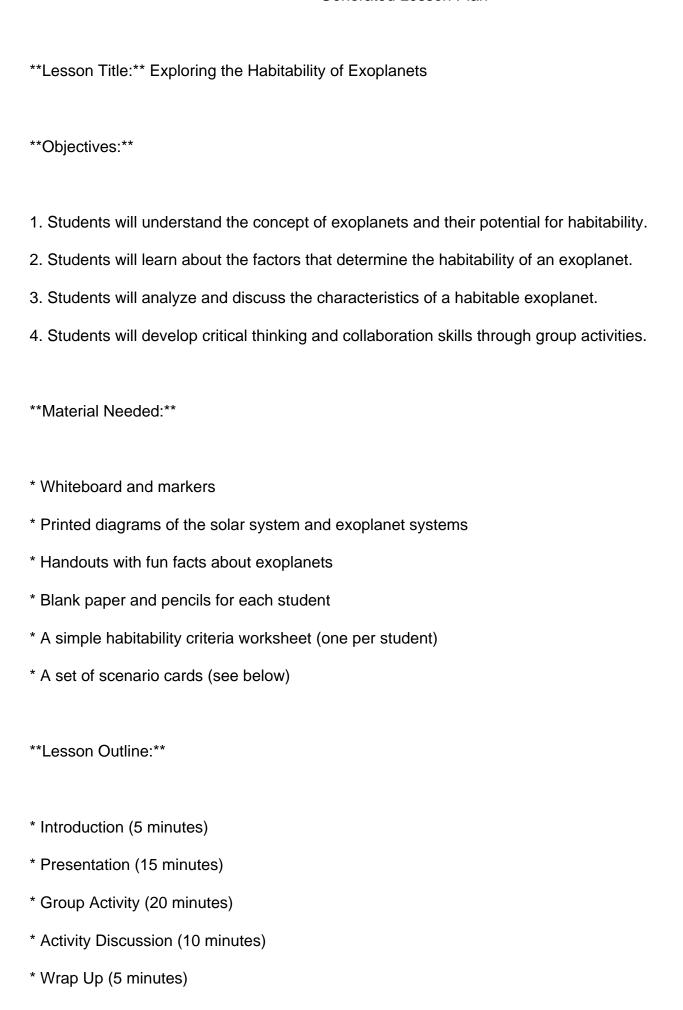
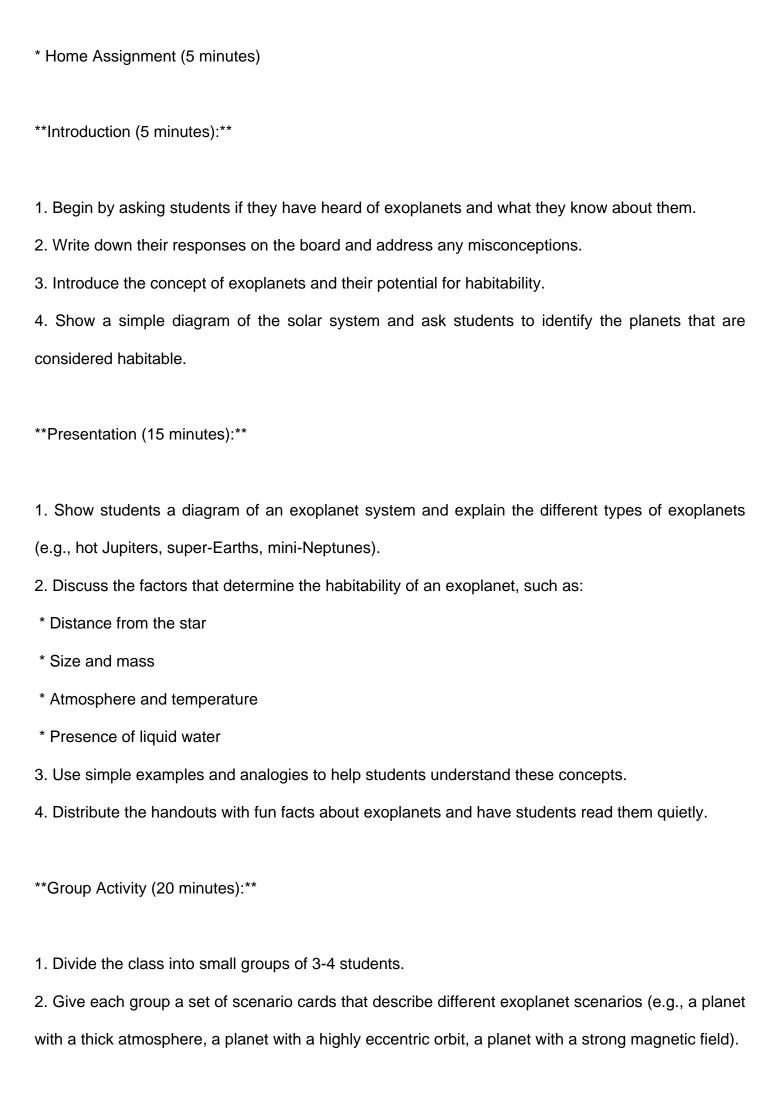
Generated Lesson Plan





- 3. Ask each group to discuss and decide whether their exoplanet scenario is habitable or not, using the habitability criteria worksheet as a guide.
- 4. Encourage students to use the diagrams and handouts from the presentation to support their decisions.
- **Activity Discussion (10 minutes):**
- 1. Have each group present their scenario and decision to the class.
- 2. Ask the class to discuss and debate the decisions, using the habitability criteria as a guide.
- 3. Encourage students to ask questions and challenge each other's assumptions.
- **Wrap Up (5 minutes):**
- 1. Summarize the key points from the lesson, including the factors that determine the habitability of an exoplanet.
- 2. Ask students to reflect on what they learned and what they would like to learn more about.
- 3. Provide time for students to ask questions and seek clarification.
- **Home Assignment (5 minutes):**
- 1. Assign students to research and write a short report on a specific exoplanet that is considered habitable.
- 2. Ask them to include information on the exoplanet's size, mass, atmosphere, and distance from its star.
- 3. Encourage students to include diagrams and illustrations to support their report.

^{**}Scenario Cards:**

* Card 1: A planet with a thick atmosphere, orbiting a small, cool star.
* Card 2: A planet with a highly eccentric orbit, orbiting a large, hot star.
* Card 3: A planet with a strong magnetic field, orbiting a binary star system.
* Card 4: A planet with a surface temperature of -200°C, orbiting a distant star.
* Card 5: A planet with a surface temperature of 50°C, orbiting a nearby star.
Habitability Criteria Worksheet:
* Distance from the star:
* Size and mass:
* Atmosphere and temperature:
* Presence of liquid water:
* Other factors: