ESI Ecosystem Scene Notebook

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<th>ESIs Assigned:</th>
<th>Case no. 1384-049: Seagrass Ecosystem</th>
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**Open lines of investigation:**

1. Seagrass ecosystems can get a little messy without herbivores to help keep the algae in check. Observe the specimens in the seagrass tank – what animals do you see feeding on the algae?

   **Suspect:**

   **Suspect:**

2. Need to find two (2) adaptations for survival in a seagrass bed. Have to name the animal, the adaptation and how it is used! First thing I need to do is examine the seagrass ecosystem and think about what kind of things I would have to worry about if I lived there—that should help.

   **Animal:**  **Adaptation:**  **What it’s for:**

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Case no. 1384-050: Mangrove Ecosystem

Open lines of investigation:

3. Determine the species of mangrove growing in the tank.

   Suspect:

   Evidence:

Case no. 1384-051: Indian River Lagoon Hardbottom Ecosystem

Open lines of investigation:

4. Many crustaceans have a hard outer skeleton and antennae, and some use claws to defend themselves. Need to find three crustaceans hiding in the rocks.

   Suspect:

   Suspect:

   Suspect:

Case no. 1384-052: Coral Reef Ecosystem

Open lines of investigation:

5. A small fish has been accused of cleaning parasites from fish. It hangs around in one spot and waits for dirty fish to stop for a cleaning. Find this animal and mark its cleaning station on the diagram – also name one fish you see it cleaning.

   Cleaner suspect:

   Cleaner client:

[Reef profile]
Case no. 1384-052: Coral Reef Ecosystem

Open lines of investigation:

6. Sea urchins look like a ball of toothpicks. Those spines could cause a nasty injury if you’re not careful! But how do they eat? Need to find out where the mouth is located and why. Best plan is to sketch the animal and label where you think the mouth is.

Case no. 1384-053: Nearshore Reef Ecosystem

Open lines of investigation:

7. If you’re looking for a motive, how about food? Food chains start with the light from the sun. We’ve been assigned to trace at least one (1) food chain in the nearshore ecosystem. Need to remember what kinds of organisms get their energy from the sun. That’s a good place to start.

Light →

Case no. 1384-054: Oculina Reef Ecosystem

Open lines of investigation:

8. Most coral have a real racket going on. The algae living inside the corals give them food and color in exchange for protection. The Oculina don’t have algae. Why?

Theory: