KML Living Lab Project (LL) can be scheduled as a minimum of one day or a maximum of 3 days for your class. LL sites can be selected for assessment to suite your time and curriculum needs. Weather may also play a role in site selection on any given day. Let us know how we can make the LL Monitoring Project work with your KML field experience. Feel free to call as questions arise.

Possible suggested scheduling:

|  |  |  |
| --- | --- | --- |
| **Option 1**  1 day | **Location** | **Activity** |
| 9:00-10:00 | KML classroom | review LL Power Point, Species ID & grid set-up protocol |
| 10:00-11:00 | Dry land | set up grid, assign data collection teams |
|  |  | lunch |
| 01:00-4:00 | off KML seawall | LL site 1– grid set up and data collection |
| evening | KML classroom | Data entry and review |

|  |  |  |
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| **Option 2**  2 or 3 days | **Location** | **Activity** |
| **Day 1** |  |  |
| 9:00-10:00 | KML classroom | review LL Power Point, Species ID & grid set-up protocol |
| 10:00-11:00 | Dry land | set up grid, assign data collection teams |
|  |  | lunch |
| 01:00-4:00 | off KML seawall | LL site 1– grid set up and data collection |
| evening | KML classroom | Data entry and review |
| **Day 2** |  |  |
| 9:00 | Leave dock | LL Site 2– grid set up and data collection |
| 12:00 | On the boat | lunch |
| 1:00 |  | LL Site3– grid set up and data collection |
| 3:00 | Return to KML |  |
| evening | KML classroom | Data entry and review |
| **Day 3** |  |  |
| 9:00 | Leave dock | LL Site 4– grid set up and data collection |
| 12:00 | On the boat | lunch |
| 1:00 |  | LL Site5– grid set up and data collection |
| 3:00 | Return to KML |  |
| evening | KML classroom | Data entry and review |

Recommended planning & preparation:

1. **Review and understand grid set-up** 
   1. See “Grid Set-up Protocol” document online
      1. Map of site locations online
   2. Data collection tasks can be tailored to your class numbers
      1. Teams of 2 snorkelers
      2. 4 transects – 4 teams (8 students)

OR

* + 1. 4 transects – 8 teams (16 students)
       - 1. 4 teams collect belt transect data
         2. 4 teams collect line intercept data
         3. All teams do quadrat data collection

1. **Species identification** – near-shore benthic communities in the Florida Keys
   1. Species ID sheets - online
      1. Download file for review prior to arrival
         1. Laminated species ID sheets are part of Field box for quick in-water reference for the commonly seen critters
   2. Power Point presentation
      1. Can be emailed in advance
      2. For viewing or review in KML classroom
         1. Laptop/projector available
2. **Dry land grid set-up** - prior to attempting actual site setup
   1. *Plan ~2hrs with KML staff* – *please schedule in advance*
      1. visualize the sampling grid and understand grid set-up protocols
      2. get familiar with the equipment and data collection strategies
      3. ask questions before adding the underwater component to the mix
      4. Recommend that students do their first site located just off our seawall (KML site) following the dry-land drill
         1. easy snorkel access
         2. you can do this on your own schedule
         3. plan 2-3 hours to complete
3. **Boat trips** - *each LL site typically requires a ½-day boat trip* to complete the set-up assessment and tear-down. Many classes select at least 2 sites (full day boat trip). Sights can be selected for comparisons and contrasts depending on your needs. You decide how many sites you would like to visit.
   1. Bayside vs Oceanside
   2. High sponge mortality vs low sponge mortality
   3. 5 total sites
4. **LL Field Box** - We have all the necessary clipboards, pencils, transect tapes, weighted lines, corner buoys, etc in our LL field box.
   1. We do not supply the underwater data sheets for your class, however we have the data sheet templates. You can either print data sheets out ahead of time or KML staff can do it here at our cost for UW paper + copier fees.
   2. All gear should be carefully rinsed, dried and returned to the Field Box at the completion of the monitoring project
5. **LL Data base** – at the moment we have a simple Excel Data Base spread sheet. Plans for the future include a web-based data base that you will be able to access online, enter data, etc. but for now:
   1. Obtain Excel Data file from Science staff
      1. Each team should enter their data promptly
         1. Proof all data carefully
      2. Compare with previous data collected
         1. Spatial/Temporal
            1. Between sites
            2. Within sites
            3. Other?
      3. Leave a copy of all data sheets with KML staff
      4. Merge new data with Master Data file
      5. Feed-back – we would love to see any project reports resulting from LL data analysis