

# FIRST LEGO LEAGUE CHALLENGE

# **Mission Brainstorming Worksheets**



TEAM NAME: TEAM NUMBER:

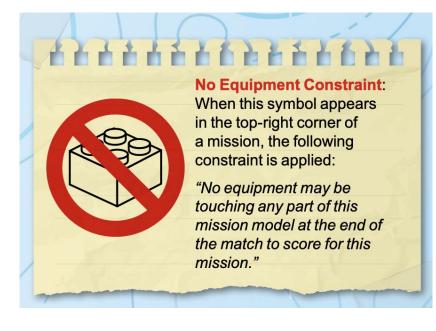
Updated: August 2024

#### Instructions

This document is \*NOT\* a substitute for reading the Robot Game Rulebook (RGR). The main purpose of this document is to brainstorm mechanisms and methods for solving missions. We assume that every student will start by reading all the rules.

#### Instructions for students:

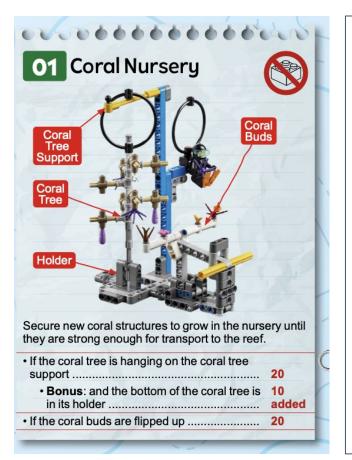
- 1. Read the rules carefully https://www.firstlegoleague.org/season#resources
- 2. Check for any updates https://www.firstlegoleague.org/season#resources
- 3. **Brainstorm ideas.** Think about what you might have to build or program to solve this mission. Do you need to push/pull/pick up/drop off? What type of mechanism would be needed? Does it need to reach high or low?

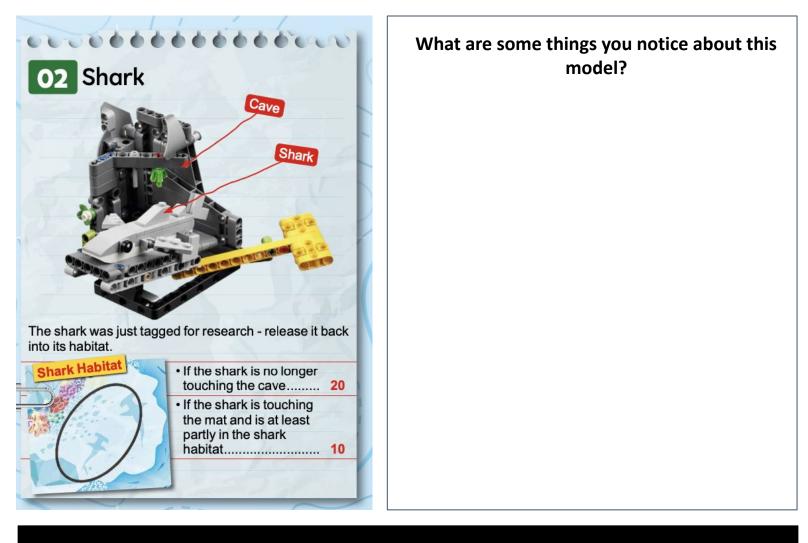


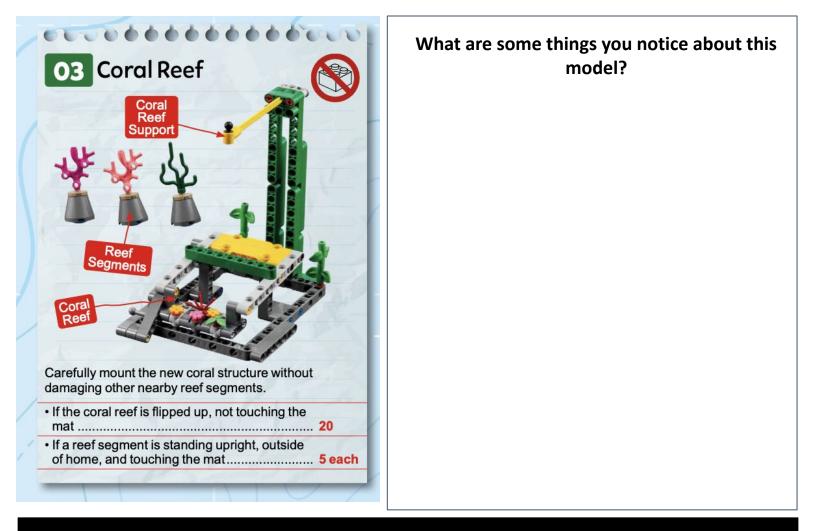
 Equipment: Everything teams bring to the match. (See Rules, Before the Match for more details.)

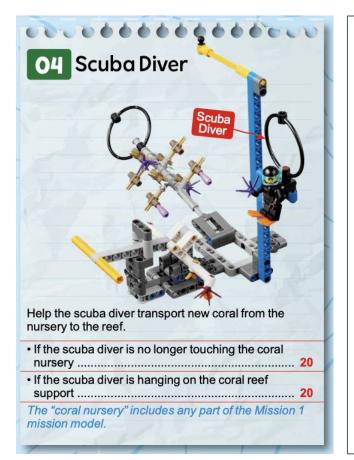


#### How can we make sure that everything fits in one launch area?





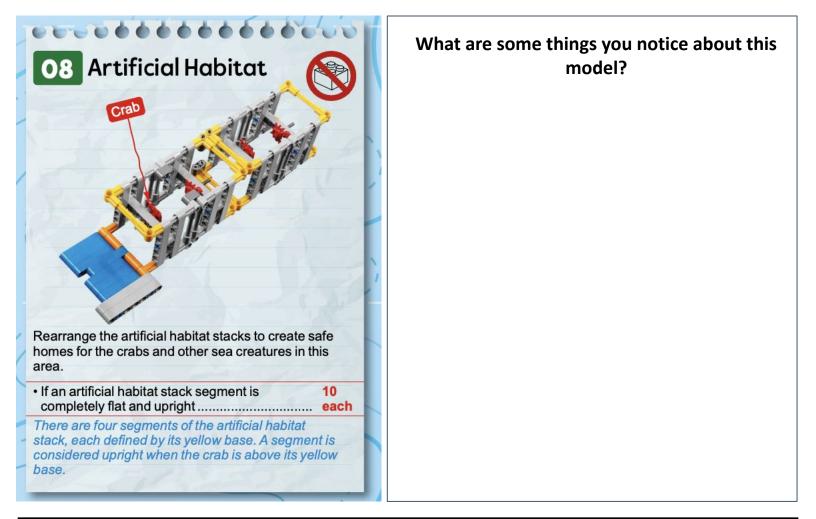


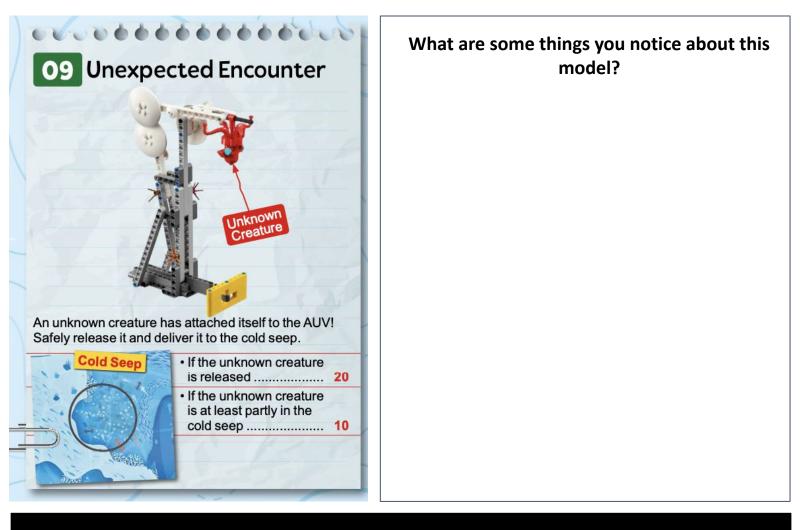






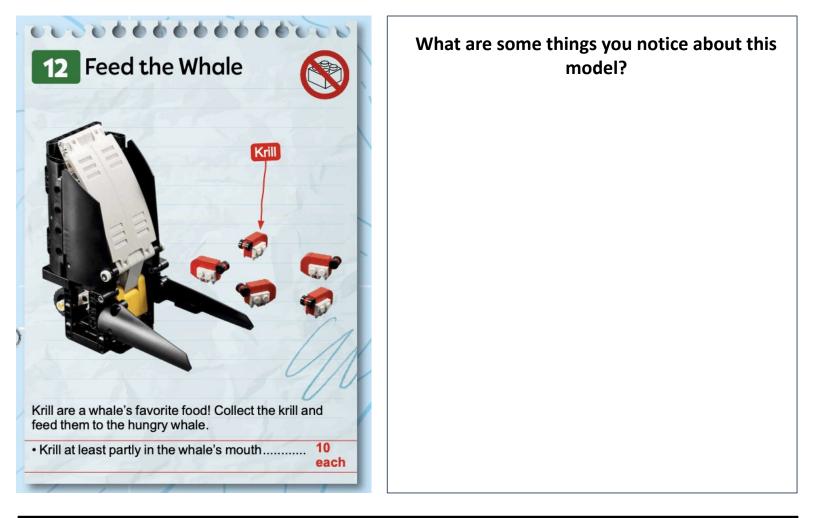






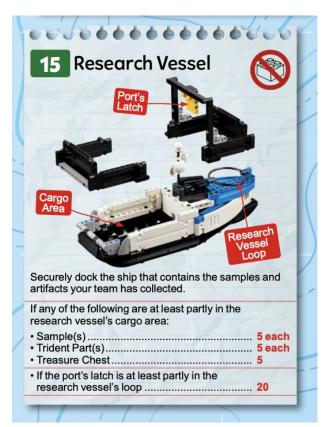




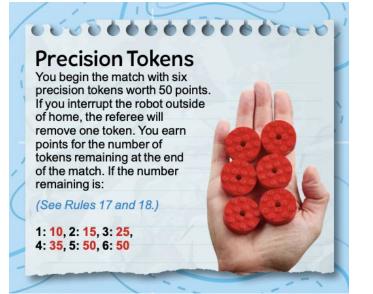




|      | 00000000000000   | in           |
|------|--|--------------|
| 1    | 14 Sample Collection   |              |
|      |  | ibed<br>iple |
| 1    | Water<br>Sample  | -            |
| 1    | Kelp<br>Forest   | eabed        |
|      |  | ident        |
|      |  |              |
| 1    | Plankton<br>Sample   | 30           |
|      | Collect samples and artifacts from around the r they can be analyzed by scientists in the lab. | nat so       |
|      | If the water sample is completely outside the water sample area                                | 5            |
| -    | If the seabed sample is no longer touching the seabed  | 10           |
|      | If the plankton sample is no longer touching the kelp forest                                   | 10           |
| 45.1 | Water Sample Area If a piece of the trident is no longer                                       |              |
| 1    | touching the shipwreck   | 20           |
|      | pieces are no<br>longer touching the   | 10           |
|      | shipwreck  | added        |







#### How do we keep our free points?