**Group Members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Started: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Requirements:**

BUILD a device that will…

 IMITATE a real, wild animal

 including its behavior and environment.

 Also RESEARCH and EXPLAIN important facts about your animal.

Your animal and presentation *must* …

* Look like the real animal. (close enough for someone else to recognize what it is.)
* Be presented like a “Discovery Channel” video, with some explanations (written or spoken).
* Be based on scientific information that you find and record on these pages.
* Include moving parts, sound, props, and/or scenery that match the animal’s real life.
* Have some parts that are controlled by a WeDo program (saved on the computer).
* Use at least *one* electronic WeDo part with input or output (motor or sensor).
* Last at least 30 seconds, up to a minute.

Your animal and presentation *may* …

* Borrow ideas from the Internet and the WeDo notebook.
* Move in *any* way you can devise.
* Use a real person to move or control some (but not all) parts of the scene.
* Use any parts in the WeDo kit (including extra sensors or motor, and LEGO person).
* Use art supplies (construction paper, markers, etc.) to make scenery, props, or body parts.

Your animal and presentation *must NOT* …

* Change any programming or LEGO parts once the program is running.
* Require a real person to move everything.
* Borrow parts from any other WeDo kits.
* Simply copy any other projects.

**First Animal Ideas:** (What animals might you like to build? What would they do?)

**Research and New Ideas:** (include facts you learn about each animal, sources you use,
and ideas you come up with for behavior, scenery, props, etc.)

Teacher Approval

to Continue: \_\_\_\_\_

Final Choice – Scientific Species Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Final Animal Plans:** (include animal body parts, movement, scenery/props, and program blocks)

**Tests / Revisions:** (What did you change? Why? What worked or not? Any new ideas?)

**Final Design and Presentation Plan:** (sketch *and* describe!) (may attach separate sheet)

Group Member Sign-Off: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Finished: \_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Video recorded on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Scoring Rubric & Sign-offs:**  (give up to 5 points for each category)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Rating Category** | By Classmate:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | By Classmate:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | By Lab Manager:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | By Ms. G:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Scientific Facts and Details |  |  |  |  |
| Well-Built /Good Design |  |  |  |  |
| Meets All Requirements |  |  |  |  |
| Full Team Participation |  |  |  |  |
| Good Video/ Presentation |  |  |  |  |
| **Total Points:** |  |  |  |  |