LEGO WeDo Robotics   Teacher: _____

Design Challenge #2 – "Animal Action"

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.

Design Challenge #2 – "Animal Action"

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: _____

Design Challenge #2 – "Animal Action"

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?)

Design Challenge #2 – "Animal Action"

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

Group Member Sign-Off: _____ Date Finished: _____

_____ _____

Video recorded on _____ by _____

<u>Scoring Rubric & Sign-offs:</u>   (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:				