

## Design Challenge #3 – “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.

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**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.)

Final Choice -- Species Name: \_\_\_\_\_

Teacher Approval to Continue: \_\_\_\_\_

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**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?)

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**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)

<b>Rating Category</b>	By Classmate: _____	By Classmate: _____	By Lab Manager: _____	By Ms. G: _____
Scientific Facts and Details				
Well-Built / Good Design				
Meets All Requirements				
Full Team Participation				
Research / Presentation				
<b>Total Points:</b>				