

### Brachiosaurus Lesson Plan #3

\*Call attendance and fill out attendance sheet!



Now that the scales are connected to the body, continue by placing the scales on the tail. This photo shows where the tail is located. Make sure the sides on which you glue each type of scale match the rest of the body.



This is the finished tail. Notice the same type of scales is on the same side as on the rest of the body. Use only little glue at the connections.



This is the tail, the body and the scales glued on the correct sides.



Next, disassemble and file all of the card's parts as shown in this photo. The filing is crucial. If it is not done well, the parts won't come together as they should.



Glue the triangles to the bottom of the card (just as you've done in previous robots)



Glue the walls in their places. Notice that students glue well because the dinosaur's body weight will sit directly on the card.



This is the card's front with the walls glued to its' bottom.



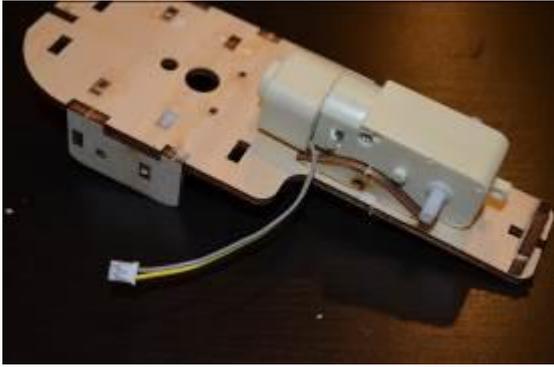
Glue the motor's base and the back triangle.



This is the complete card.

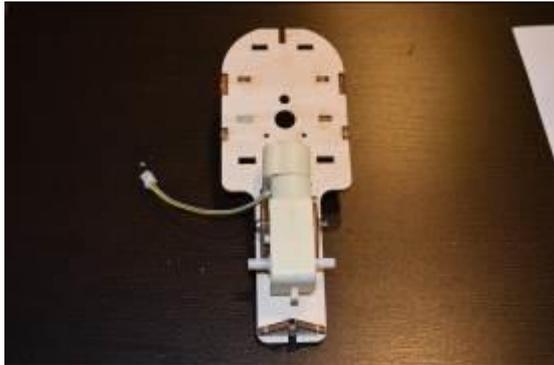


Next, hand each student a motor, a 30 screw and a regular locknut. Notice directions regarding the motors below.



Place the motor. Notice that the cable comes out of the left side.

First, ask students to place it themselves, and only then walk around the class and make sure they did so correctly. Only once you see everyone did so, you may move on.



Insert the 30 screw from one side of the motor to the other. Now, the motor is connected to the card.

Close and tighten with a locknut.



After making sure each student assembled correctly so far, hand each student another motor (a “standing” one) and 2 large silver drilling screws (not regular drilling screws).



Place this motor according to the holes on the card.



Insert the drilling screws on the other side.

### Information on handing out motors

- Remove rubber bands from engines BEFORE handing them out, and keep the rubber bands.
- Explain that if the motor rips, it will not be replaced (You will, of course, replace ripped motors. This is a warning)
- Go over safety instructions as written below:
- Explain that students **MAY NOT** hold the motor in the air throughout the building process. Building will be done on tables only.
- DO NOT walk around with the card or motor. For checking, call instructor over.
- After placing the motor, do not touch it until receiving other instructions.
- Place the motor with the red cable facing up!!!

Time in minutes	Activity name	Comments
5	Attendance	- Mark attendance sheet - Indicate date
15	Finish scales assembly	-Notice that scales are glued on the correct sides in all body parts
15	Glue card	- Glue well
15	Assemble motors	- Glue well!
5	Collect parts	- Store in safe place - Bags with name for each student
Total: 55 mins		