

BACKYARD BRAINS
ROBOROACH EXPERIMENT #1 WORKSHEET
SURGERY SETUP RECORD

Date:	
Surgeon:	
Participants:	

COCKROACH INFORMATION

Species:		
ID #:		
Weight:		
Size:	Length:	Width:
Antennae length:		
Condition pre-surgery:		

SURGERY TOOLS

Anesthesia:	Ice water temperature:
Electrode type:	
Glue type:	
Needle diameter:	
Sandpaper grit:	

BACKYARD BRAINS
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SURGERY PROCEDURE RECORD

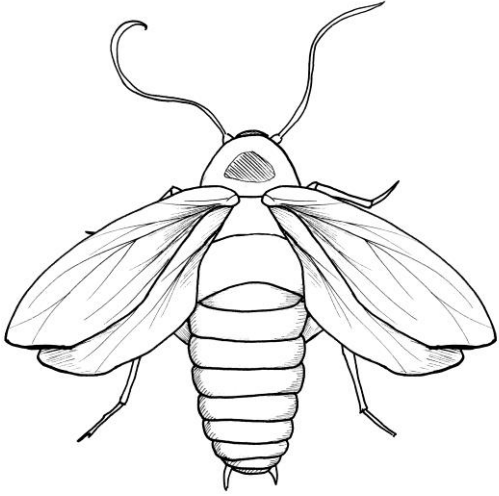
Time	Duration		Task	Notes
-----	-----	1	Fill out the "Setup Record"	
		2	Anesthetize roach in ice water	
			Sand pronotum, glue on header	
			Place roach back into ice water	
		3	Implant the ground electrode	
			Place roach back into ice water	
		4	Implant the left antenna electrode	
			Place roach back into ice water	
		5	Implant the right antenna electrode	
			Place roach back into ice water	
		6	Tidy the slack in the wire and glue	
		7	Return roach to its terrarium	<ul style="list-style-type: none"> • Make sure the roach has food and water for a comfortable recovery. • Remember to clean up your workspace and wash your hands!

Total time in ice water:	
Total time of surgery:	

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POST-OP REVIEW RECORD

ELECTRODES IMPLANTATION LOCATIONS

	Roach antennae length (after): _____
	Draw in your ground electrode implant location and antennae length on the image on the left. Feel free to add any other important details
Additional Notes:	

ROBOROACH SURGERY REVIEW

Difficulties:	
New techniques:	
Ideas for improvements:	

WAIT AT LEAST 4 HOURS (OR OVERNIGHT) FOR THE ROACH TO RECOVER AND THEN TRY OUT ROBOROACH EXPERIMENT #2, NEURAL MICROSTIMULATION.