

STEM: REMOTE TRUCK

STATE FAIR ENTRY: No

EXHIBIT BY: All * items must come to the contest.



TRACTOR / TRUCK Remote Truck (Electric & Gas)	Project Book TRUCK-RC-10/16	Record Sheet TRUCK-16-R-9/16*
This is a resource project book. There are no activities to complete.		

JUDGING TIME: Wednesday, July 21 at 2:00 p.m. Check-in on Wednesday from 1:30 – 2:00 p.m.
Construction will be judged at Fri, July 16 at 2:00 p.m. Check-in on Fri. from 12:30 – 1:15 p.m.

PROJECT DESCRIPTION:

In this project, 4-H'ers will exhibit a remote control truck (gas or electric) to be used in a pull. The 4-H'er will learn some engineering and physics principles.

EXHIBIT:

All divisions:

1. Complete a separate record sheet for each truck. NOTE: Must be enrolled in each type of truck you want to bring to the fair by May 15th. NO additional trucks will be added after May 15th
2. Participate in the county pull contest.
3. Show arena is limited to: show officials, truck officials, tractor officials and pullers only. *No parents that are not officials will be allowed.
4. Pants and closed toe shoes must be worn in the show arena for safety purposes.
5. No paddle wheels allowed. All tire designs are subject to approval by the project leader.
6. All exhibitors are required to attend one of two safety meetings to be eligible to pull at the fair.

1/10th scale remote controlled electric 4WD trucks – Exhibit: Open to all members 1st year and up. Modify a 1/10th scale electric truck for pulling. Exhibit one 1/10th scale remote controlled truck which may be purchased or scratch built or previously used unit by a past member as long as they meet the specifications. This division offers both a 14lb and a 16lb class. See project manual for additional requirements.

1/10th scale remote controlled gas 4WD trucks – Exhibit: Open to all members 1st year and up. Modify a 1/10th scale fueled truck for pulling. Exhibit one 1/10th scale remote controlled truck which may be purchased or scratch built or previously used unit by a past member as long as they meet the specifications. See project manual for additional requirements.

1/5th scale remote controlled gas 4WD trucks – Exhibit: Open to all members 1st year and up. Modify a 1/5th scale fuel powered truck for pulling. Exhibit one 1/5th scale remote controlled truck which may be purchased or scratch built or previously used unit by a past member as long as they meet the specifications. See project manual for additional requirements.

IMPORTANT

Static Model Class (Construction) on Fri. – All fuel powered tractors and trucks **must** arrive at judging without fuel in the tank. Note: Only 1 truck and / or tractor can be shown for the Static Model (Construction) class.

	1/10 th Scale R/C Truck Electric 14 lb.	1/10 th Scale R/C Truck Electric 16 lb.	1/10 th Scale R/C Truck Fuel	1/5 th Scale Remote Control Truck
Max. Weight (lbs)	14lbs	16lbs	18	40
Max. Wheelbase (inches) (center of front axle to center of rear axle)	16"	16"	16"	24"
Length Limit (inches) (center of rear axle to front of vehicle)	24"	24"	24"	34"
Max. Number of engines	2 (Electric)	2 {Electric}	1 (Fuel)	1
Max. Batteries for Electric	14 cell	14 cell	====	====

Max. engine displacement (cubic inches)	540 or 550 type motors	750 type motors	4.6 Nitro	Gas powered 35 cc
Hand-held control device	Remote Control	Remote Control	Remote Control	Remote Control
Tire Design	Restricted	Restricted	Restricted	Restricted
Max. Tire Size (width x diameter)	7" x 5"	7" x 5"	7" x 5"	Open
Max. Hitch Height (inches)	4"	4"	4"	4"
Min. Hitch Length (center of rear axle to back of hitch hole)	2"	2"	2"	2"
Gear Ratio	Open	Open	Open	Open