

ENGINEERING SCIENCE

Class #	Project #	Description
ELECTRICITY		
300	04151	Flashlight
301	04151	A Simple Switch
302	04151	Electromagnet
303	04151	Completed Magic of Electricity Project Book
304	04152	Complete simple circuit demonstrating DC and AC current
305	04152	Parallel Circuit Board labeled with proper symbols
306	04152	Series Circuit Board labeled with proper symbols
307	04152	Battery Alarm
308	04152	Completed Investigating Electricity Project Book
309	04153	Exhibit of various electrical wires, labeled with gauge, type and usage
310	04153	Poster demonstrating 3 major types of light bulbs
311	04153	Poster showing circuits and switches floor plan of your home, including receptacles and fixtures, labeled with proper symbols
312	04153	Completed Wired for Power Project Book
313	04154	Circuit using diodes, label all parts with proper symbols
314	04154	Circuit that intermittently flashes the LED
315	04154	A 6 to 8 Watt Amplifier
316	04154	Completed Entering Electronics Project Book
317	04159	Self-determined advanced Electricity exhibit including Self-Determined Project Record Form #100.SD.1 or appropriate project record form
SMALL ENGINES		
318	04251	Crank It Up – exhibit
319	04251	Crank It Up – completed project workbook
320	04252	Warm It Up – exhibit
321	04252	Warm It Up – completed project workbook
322	04253	Tune It Up – exhibit
323	04253	Tune It Up – completed project workbook
324	04259	Self-determined advanced Small Engines exhibit including Self-Determined Project Record Form #100.SD.1 or appropriate project record form
WELDING		
325	04301	Unit I Name Plate – no larger than 12”x 24”x 3/16” or ¼”
326	04301	Unit I Silhouettes – set of 4 NRA small bore rifle regulation animals ¼” or 3/16” thick
327	04301	Unit I Clover – 12” across by ¼” or 3/16” thick

328	04302	Unit II – Skill Plate
329	04302	Unit II – Adjustable Sawhorse
330	04309	Self-determined advanced Welding exhibit including Self-Determined Project Record Form #100.SD.1 or appropriate project record form
ROCKETRY		
331	04401	Unit I – Model Rocket – Skill Level I
332	04401	Unit I – Model Rocket – Skill Level II
333	04402	Unit II – Model Rocket – Multi-Stage
334	04402	Unit II – Rocketry Exhibit
335	04409	Self-determined advanced Rocketry exhibit including Self-Determined Project Record Form #100.SD.1 or appropriate project record form
WOOD SCIENCE		
336	04451	Measuring Up – Flower Box
337	04451	Measuring Up – Napkin or Letter Holder
338	04451	Measuring Up – Picture Frame
339	04451	Measuring Up completed project workbook
340	04452	Making the Cut – Napkin or Letter Holder
341	04452	Making the Cut – Birdhouse
342	04452	Making the Cut – Foot Stool
343	04452	Making the Cut – completed project workbook
344	04453	Nailing it Together – Bookcase
345	04453	Nailing it Together – Learning Tree Jigsaw Puzzle
346	04453	Nailing it Together – Box of Many Uses
347	04453	Nailing it Together – completed project workbook
348	04454	Finishing Up – Name Plate with inlay and overlay
349	04454	Finishing Up – Step Stool/Chair
350	04454	Finishing Up – Table Top Hockey Game
351	04454	Finishing Up – completed project workbook
352	04459	Self-determined advanced Wood Science exhibit including Self-Determined Project Record Form #100.SD.1 or appropriate project record form
ROBOTICS		
360	04469	Self-determined Robotics exhibit including Self-Determined Project Record Form #100.SD.1