**Mechanical Science Guidelines**

*Bulletins and plans for this department are available at the 4-H office.*

**Automotive: Educational Exhibit**

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**Bicycle: Educational Exhibit**

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**Electrical Science**

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**Classes:**

- 2 simple articles
- 2 more advanced articles
- 1 more advanced article

**Electronics**

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**Classes:**

- 1 item constructed equipment
- 1 item more advanced
- 1 item more advanced

**Small Engines**

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**Classes:**

- (2 cycle) poster showing ideas learned.
- (4 cycle) poster showing ideas learned.
- Engine plus story telling what happened (re-conditioning, parts replaced, etc.).
- Engine power application (show project worked on: ie, grinder, generator, saw, compressor, etc.).
• Completely overhauled engine with story of reconditioning, adjustments, etc.

Tractor

Classes:

• Exhibit including Book 1
• Exhibit including Book 2
• Educational Exhibit

Welding

*Note: Members should be 10 or 11 years old to start. Members may enter one single project AND a group or club project.*

Classes:

• Apprentice-3 types of welds
• Handyman-2 useful articles
• Craftsman-1 completed article