# 4-H Electrical Science

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## Age | Exhibit | Suggested Articles
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### Beginning Electrical Science

- **9 years old by January 1**
  - 1st year ever in project: Cord Board (Six (6) different types of cord/wire, labeled with type, size and recommended use)

### Intermediate Electrical Science

- **10-12 years old by January 1**
  - 1st year ever in project: Cord board & one (1) electrical article or cord board & electrical meter reading chart/record
  - Other than 1st year: Two (2) electrical articles made by exhibitor or two (2) pieces electronic equipment assembled by exhibitor or combination
  - Electrical articles: Extension cord, trouble light, motor

### Junior Electrical Science

- **13-14 years old by January 1**
  - 1st year ever in project: Two (2) electrical articles or one (1) electrical article and electrical meter reading chart/record
  - Other than 1st year: Two (2) electrical articles made by exhibitor or two (2) pieces electronic equipment assembled by exhibitor or combination which shows advancement of skills over previous year
  - Electrical articles: Make a pair of lamps, board of electrical fixtures and how they work, rewire a floor lamp, any simple electronic kits.

### Senior Electrical Science

- **15-18 years old by January 1**
  - 1st year ever in project: Two (2) electrical articles or one (1) electrical article and electrical meter reading chart/record
  - Other than 1st year: One (1) major electrical article made by exhibitor or one (1) major piece of electronic equipment assembled by exhibitor or major building wiring/rewiring project (documented with step-by-step photos and explanation of wiring procedure used)
  - Electrical articles: Wire a room in house or workshop including drawings and pictures of circuits, fixture board, board showing parts of electric motor, any advanced electronic kit