



CREST

SILVER CREST PROJECT IDEAS

The projects below might give you some ideas for your own Silver CREST Award topic.

Students undertaking a Silver CREST Award must submit a detailed project proposal to the National CREST Office before starting the main component of their project work. Students will receive detailed feedback about their project and its suitability to help them achieve a Silver CREST Award.

Silver CREST Awards require more background research and more in-depth investigations and design considerations than is required for the Blue and Bronze CREST Awards.

BIOLOGY SCIENCE PROJECTS

Students have completed Silver CREST projects to explore:

- the growth of bacteria in footwear
- the effect of chilli on micro-organisms
- whether ants produce antibiotics
- whether marigolds protect carrots from root knot nematodes
- the effect of Paterson's Curse on horses
- the effect of smoked water on the germination of Western Australian Christmas trees
- vitamin C in bush foods.

PHYSICS AND CHEMISTRY SCIENCE PROJECTS

Students have completed Silver CREST projects to explore:

- dia-situations: An investigation into the use of diatomite for oil retrieval at sea
- aerofoils and the effectiveness of wing flaps
- crash cushions
- the effectiveness of cricket pads
- photodegradable plastics
- solar powered Stirling engines in power production
- the elasticity of hair ties
- the effect of swimming attire on the speed of a swimmer.

AROUND THE HOUSE TECHNOLOGY PROJECTS

Students have completed Silver CREST projects by inventing:

- a better recycling system for the average home
- an electronically controlled home safe
- a multifunctional power pack
- a vacuum cleaner head
- a wheelchair tray
- a wheelie bin assistant
- a specialised dog gate.

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SPORT TECHNOLOGY PROJECTS

Students have completed Silver CREST projects by inventing:

- an upturned, fast skiffer board
- a new design of hockey sticks with interchangeable heads
- a ski and pole transportation mechanism
- a swimming pool safety device
- a carbon-fibre track bike frame
- wrist guards for snow boarding.

OTHER TECHNOLOGY PROJECTS

Students have completed Silver CREST projects by inventing:

- an alarm-protected security case
- a biomedical waste disposal unit
- an automatic audio switcher
- an Eco-tech water saver
- protective clothing for motorcyclists
- an inflatable hooded jumper