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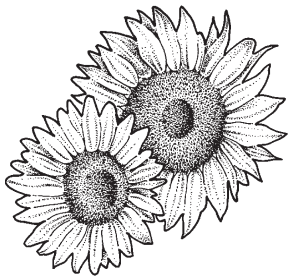


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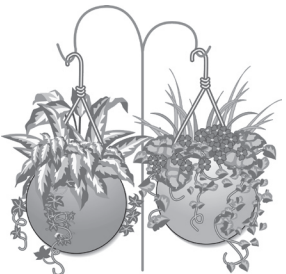
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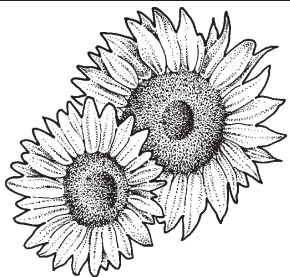
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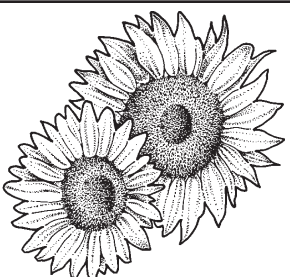
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Amber Smith and Bracelyn Redlin got their helicopter ready for flight at the program done by the Science Olympiad team on Thursday night at the Goodland High School Auditorium.

Photos by Pat Schiefen/The Goodland Star-News

Science Olympiad team shows off their projects

The members of the Goodland Science Olympiad team gave a program on Thursday at the Goodland High Auditorium to show off their projects that won them first place at regional and fourth in small schools at state. This is the fourth year for them to take first at regional.

In the towers event by Jason Cowan and Tanner Jones they built a tower out of balsa wood and competed to see how much weight the tower could hold. They were second at regional and third in small schools and sixth overall at state.

Amber Smith and Bracelyn Redlin took helicopters to state. Amber Perdew and Berkley White did it at regional. They were second at regional and second in small school and fifth overall at state. The team builds a free flight rubber band powered helicopter to stay in the air as long as possible. Their time was 38 seconds.

In the forestry project Carly McCracken and Cortney Cowan took tests on identifying trees and facts about them. They were second at state and seventh in small school and 19th overall.

For rocks and minerals Chantel Coates and Amber Smith showed their knowledge of rocks and minerals including the rock cycle, knowledge of minerals, formation and properties of igneous and sedimentary rock. They were first at regional and fifth at small schools and 10th overall.

Jarod Lake and Berkley White did Fermi questions. This is a science related question that seeks a fast, rough estimate of a quantity which is impossible to measure. The answer is given in an order of 10. They placed first at regional and second in small schools and ninth overall.

In anatomy and physiology the team is tested over the structure and function of the human body with the three main systems, respiratory, excretory and digestive. For regional Perdew and Smith were third and for state Smith and Redlin were third at regional and seventh in small schools and 18th overall.

For sounds of music Brendan Fulcher and Brianna White competed at regional

and Brianna White and Cheyenne Stegeman competed at state. They were fifth at regional and second in small schools and eighth overall. The team had to build a wind instrument and a percussion instrument and play a tune provided and one picked by them.

In robot arm which took the place of robot ramble Fulcher and Ian Bonsall designed, built and tested a robot arm to move objects for a score. They placed seventh at regional and second in small schools and ninth overall.

Michaela Garret and Jones did write it do it in which one team member writes directions to build an abstract model for the other to build. They were third in regional and 10th in small schools and 21st overall.

Coates and Stegeman were tested over the concepts of math and physics related to galaxies. They were first at regional and eighth in small schools and 24th overall.

Garrett, Berkley White and Brianna White did experimental design where they designed, conducted and reported findings of an experiment actually conducted on site. They were first at regional and sixth in small schools and 16th overall.

Bonsall and Lake did thermodynamics where they designed an insulated device to retain heat and took a test on thermodynamic concepts. They were fourth at regional and sixth in small schools and 13th overall.

McCracken and Cowan did water quality where they evaluated aquatic environments. They were fifth at small schools and 14th overall at state.

McCracken and Cowan did dynamic planet were students use process skills to complete tasks related to earth's fresh water. They were second at regional and fourth in small schools and 14th overall.

Coates and Garret did microbe mission where they answered questions, solved problems and analyzed data about microbes such as bacteria, fungi and viruses. They were first at regional and fourth in small schools and 15th overall.

Fulcher and Brianna White did chemistry

lab where they answered questions involving periodicity and oxidation/reduction reactions. They were fifth at regional and fifth at small schools and 16th overall.

Garrett and McCracken did forensics where they were given a crime scene and had to analyze fingerprints, plastics, fibers and other materials in order to figure out who committed a crime. They were fourth in small schools and eighth overall at state.

Cowan, Garrett and Lake did protein modeling using computer visualization and online resources to construct a physical model of proteins in cell death. They placed fifth at regional and were third in small schools and eighth overall.

Cowan and Jones did the gravity vehicle where they built a car powered by gravity that traveled for five to 10 meters. It had to have a braking system and is timed. They were second at regional and sixth in small schools and 12th overall.

Coates and Lake did disease detectives where they studied disease, injury, health and disability in populations. They were first at regional and fifth in small schools and 13th overall.

Corey Davis and Stegeman did remote sensing where remote sensing imagery, science and mathematical skills were used to understand Earth's hydrosphere. They were ninth at regional and eighth in small schools and 20th overall.

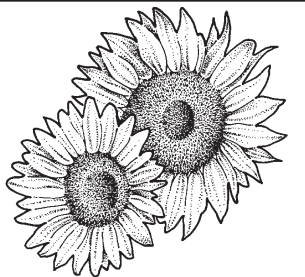
Cowan and Davis did technical problem solving where they collected data and used equations to solve problems. They were fourth at regional and seventh in small schools and 20th overall.

Berkley and Brianna White did optics where they used two to five mirrors to reflect a laser beyond a barrier to a target. They were sixth at regional and 12th at small schools and 24th overall.

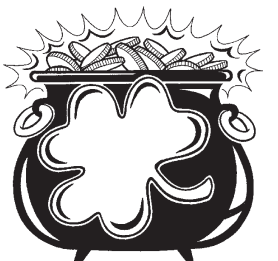
The sponsors for the group were Jeff First and Brian Coon. Other students who had been on the team previously were Parker Sieck, Caleb Fugelberg and Reed Bellamy.



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Ian Bonsall (above left) and Brendan Fulcher talked about the robot arm they built.

