



Start Your Engines! Patrol- Blackhawks

	Austin Adams	Ethan Northup	Evan White	Ian Kerby	Nathen Hebert	Nicko Moran	Noah Dynka	Ryan Dynka
1. Choose A or B or C and complete ALL the requirements.								
A. Watch about three hours total of technology-related shows or documentaries that involves transportation or transportation technology. Then do the following:								
1. Make a list of at least two questions or ideas from each show.								
2. Discuss two of the questions or ideas with your counselor.								
B. Read (about three hours total) about transportation or transportation technology. Then do the following:								
1. Make a list of at least two questions or ideas from each article.								
2. Discuss two of the questions or ideas with your counselor.								
C. Do a combination of reading and watching (about three hours total). Then do the following:								
1. Make a list of at least two questions or ideas from each article or show.								
2. Discuss two of the questions or ideas with your counselor.								
2. Complete ONE merit badge from the following list. (Choose one that you have not already used toward another Nova award.) After completion, discuss with your counselor how the merit badge you earned uses technology.								
Automotive Maintenance								
Farm Mechanics								
Aviation								
Motorboating								
Canoeing								
Nuclear Science								
Cycling								
Railroading								
Drafting								
Small - Boat Sailing								
Electricity								
Space Exploration								
Energy								
Truck Transportation								
3. Do ALL of the following:								
A. Using the requirements from the above list of merit badges:								
1. Tell your counselor the energy source(s) used in these merit badges.								
2. Discuss the pros and cons of each energy source with your counselor.								
B. Make a list of sources of energy that may be possible to use in transportation.								
C. With your counselor:								
1. Discuss alternative sources of energy.								
2. Discuss the pros and cons of using alternative energy sources.								
4. Design and build a working model vehicle (not from a kit).								
A. Make drawings and specifications of your model vehicle before you begin to build.								
B. Include one of the following energy sources to power your vehicle (do not use gasoline or other combustible fuel source): solar power, wind power, or battery power.								



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C. Test your model. Then answer the following questions:								
1. How well did it perform?								
2. Did it move as well as you thought it would?								
3. Did you encounter problems? How can these problems be corrected?								
D. Discuss with your counselor:								
1. Any difficulties you encountered in designing and building your model								
2. Why you chose a particular energy source								
3. Whether your model met your specifications								
4. How you would modify your design to make it better								
5. Discuss with your counselor how technology affects your everyday life.								



Start Your Engines! Patrol- Blue Pheonix

1. Choose A or B or C and complete ALL the requirements.

A. Watch about three hours total of technology-related shows or documentaries that involves transportation or transportation technology. Then do the following:

1. Make a list of at least two questions or ideas from each show.

2. Discuss two of the questions or ideas with your counselor.

B. Read (about three hours total) about transportation or transportation technology. Then do the following:

1. Make a list of at least two questions or ideas from each article.

2. Discuss two of the questions or ideas with your counselor.

C. Do a combination of reading and watching (about three hours total). Then do the following:

1. Make a list of at least two questions or ideas from each article or show.

2. Discuss two of the questions or ideas with your counselor.

2. Complete ONE merit badge from the following list. (Choose one that you have not already used toward another Nova award.) After completion, discuss with your counselor how the merit badge you earned uses technology.

Automotive Maintenance

Farm Mechanics

Aviation

Motorboating

Canoeing

Nuclear Science

Cycling

Railroading

Drafting

Small - Boat Sailing

Electricity

Space Exploration

Energy

Truck Transportation

3. Do ALL of the following:

A. Using the requirements from the above list of merit badges:

1. Tell your counselor the energy source(s) used in these merit badges.

2. Discuss the pros and cons of each energy source with your counselor.

B. Make a list of sources of energy that may be possible to use in transportation.

C. With your counselor:

1. Discuss alternative sources of energy.

2. Discuss the pros and cons of using alternative energy sources.

4. Design and build a working model vehicle (not from a kit).

A. Make drawings and specifications of your model vehicle before you begin to build.

B. Include one of the following energy sources to power your vehicle (do not use gasoline or other combustible fuel source): solar power, wind power, or battery power.

Chase Seeberger

Conner Godfrey

Conner Maxey

Dexter Siroky

Kyle Hardy

Luke Farrell

Sam Burch

Sean Taylor

Trey Oletski

Zane McClish



Start Your Engines! Patrol- Blue Pheonix

C. Test your model. Then answer the following questions:

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2. Did it move as well as you thought it would?

3. Did you encounter problems? How can these problems be corrected?

D. Discuss with your counselor:

1. Any difficulties you encountered in designing and building your model

2. Why you chose a particular energy source

3. Whether your model met your specifications

4. How you would modify your design to make it better

5. Discuss with your counselor how technology affects your everyday life.

Chase Seeberger

Conner Godfrey

Conner Maxey

Dexter Siroky

Kyle Hardy

Luke Farrell

Sam Burch

Sean Taylor

Trey Oletski

Zane McClish



Start Your Engines! Patrol- Raven

	Aaron Sauer	Brian Guiana	Cameron Uli	Chase Sullivan	Joshua Lindgren	Mark Szobonya	Mathew Kemper	Ryan Morgan
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Start Your Engines! Patrol- Raven

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Start Your Engines! Patrol- Troll

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3. Did you encounter problems? How can these problems be corrected?

D. Discuss with your counselor:

1. Any difficulties you encountered in designing and building your model

2. Why you chose a particular energy source

3. Whether your model met your specifications

4. How you would modify your design to make it better

5. Discuss with your counselor how technology affects your everyday life.

Braden Dykstra

Braeden Chadwell

Brandon Derr

Brandon Foster

Gavin Culbertson	
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Hunter Sparks

Jack Akers

Jake Kerby

Jared Kerby

Jonathan Porter

Mason Cheney

Michael George



Start Your Engines! Patrol- Viper

	Aaron Northup	CJ Hamann	DJ Claiborne	Koby Wheeler	Mathew Thompson	Thomas Hunt	Tim Brackus	Wesley Runner
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Start Your Engines! Patrol- Viper

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