WHOOSH! Patrol- Blackhawks	Austin Adams	Ethan Northup	Evan White	lan 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 engineering-related shows or documentaries								
that involve motion or motion-inspired technology. Then do the following:								
1. Make a list of at least five questions or ideas from the show(s) you watched.								
2. Discuss two of the questions or ideas with your counselor.								
B. Read (about three hours total) about motion or motion-inspired 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:								
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. Choose ONE merit badge from the following list. (Choose one you have not								
already used for another Nova award.) After completion, discuss with your								
counselor how the merit badge you earned uses engineering.								
Archery								
Inventing								
Aviation								
Model Design and Building								
Composite Materials								
Railroading								
Drafting								
Rifle Shooting								
Electronics								
Robotics								
Engineering Chateur Shacking								
Shotgun Shooting 3. Do ALL of the following:								
A. Make a list or drawing of the six simple machines.								
B. Be able to tell your counselor the name of each machine and how each								
machine works.								
C. Discuss the following with your counselor:								
The simple machines that were involved with the motion in your chosen								
merit badge (Hint: Look at the moving parts of an engine to find simple								
machines.)								
2. The energy source causing the motion for the subject of your merit badge								
3. What you learned about motion from earning your merit badge								
4. Choose A or B and complete ALL the requirements.								
A. Visit an amusement park. Then discuss the following with your counselor:								
1. The simple machines present in at least two of the rides								
	1							
2. The forces involved in the motion of any two fides								
2. The forces involved in the motion of any two ridesB. Visit a playground. Then discuss the following with your counselor:								

WHOOSH! Patrol- Blackhawks	Austin Adams	Ethan Northup	Evan White	lan Kerby	Nathen Hebert	Nicko Moran	Noah Dynka	Ryan Dynka
2. The forces involved in the motion of any two playground fixtures								
5. Do the following:								
A. On your own, design one of the following and include a drawing or sketch: an amusement park ride OR a playground fixture OR a method of transportation.								
B. Discuss with your counselor:								
1. The simple machines present in your design								
2. The energy source powering the motion of your creation								
6. Discuss with your counselor how engineering affects your everyday life.								

WHOOSH! Patrol- Blue Pheonix 1. Choose A or B or C and complete All the requirements. A Walch about three hours total of engineering-related shows or documentaries that involve motion or motion-inspired technology. Then do the following: 1. Make a list of at least five questions or ideas from the show(s) you watched. 2. Discuss two of the questions or ideas with your counselor. 3. Make a list of at least two questions or ideas with your counselor. 4. Discuss two of the questions or ideas with your counselor. 5. Discuss two of the questions or ideas with your counselor. 6. Discussion of the interval of a position of motion inspired technology. Then do the following: 1. Make a list of at least two questions or ideas with your counselor. 7. Discuss two of the questions or ideas with your counselor. 8. Chose Not merit badge from the following list. (Choose one you have not already used for another Nova award). After completion, discuss with your counselor how the merit badge wou earned uses engineering. 8. Archery Inventing 8. Avaitation Model Design and Building. 8. Avaitation Model Design and Building. 8. Bailonading 8. Portions 8. Real chooting 8. Real chooting 8. Real chooting 8. Avaitation 8. Avaitation 9.											
A. Watch about three hours total of engineering-related shows or documentaries that involve motion or motion-inspired technology. Then do the following: 1. Make a list of at least five questions or ideas from the show(s) you watched. 2. Discuss two of the questions or ideas with your counselor. 8. Read (about three hours total) about motion or motion-inspired 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. Choose ONE merit badge from the following list. (Choose one you have not already used for another Nova award.) After completion, discuss with your counselor how the merit badge vou earned uses engineering. Archery Inventing Aviation Model Design and Building Composite Materials Railroading Drafting Rifle Shooting 3. Do ALL of the following: 1. The simple machines that were involved with the motion in your chosen merit badge (Hint: Look at the moving parts of an engine to find simple machines works. 2. Discuss the following with your counselor: 1. The simple machines that were involved with the motion in your chosen merit badge (Hint: Look at the moving parts of an engine to find simple machines that were involved with the motion in your chosen merit badge (Hint: Look at the moving parts of an engine to find simple machines that were involved with the motion in your chosen merit badge (Hint: Look at the moving parts of an engine to find simple machines. A. Wast you learned about motion from earning your merit badge 3. What you learned about motion from earning your merit badge 4. Choose A or B and complete ALL the requirements. A. Visit an amusement park. Then discuss the following with your counselor:	WHOOSH! Patrol- Blue Pheonix	Chase Seeberger	Conner Godfrey	Conner Maxey	Dexter Siroky	Kyle Hardy	Luke Farrell	Sam Burch	Sean Taylor	Trey Oletski	Zane McClish
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B. Visit a playground. Then discuss the following with your counselor:											
	The simple machines present in the playground equipment										

WHOOSH! Patrol- Blue Pheonix	Chase Seeberger	Conner Godfrey	Conner Maxey	Dexter Siroky	Kyle Hardy	Luke Farrell	Sam Burch	Sean Taylor	Trey Oletski	Zane McClish
2. The forces involved in the motion of any two playground fixtures										
5. Do the following:										
A. On your own, design one of the following and include a drawing or sketch: an amusement park ride OR a playground fixture OR a method of transportation.										
B. Discuss with your counselor:										
1. The simple machines present in your design										
2. The energy source powering the motion of your creation										
6. Discuss with your counselor how engineering affects your everyday life.										

WHOOSH! Patrol- Raven	Aaron Sauer	Brian Guiana	Cameron Uli	Chase Sullivan	Joshua Lindgren	Mark Szobonya	Mathew Kemper	Ryan Morgan
1. Choose A or B or C and complete ALL the requirements.								
A. Watch about three hours total of engineering-related shows or documentaries that involve motion or motion-inspired technology. Then do the following:								
1. Make a list of at least five questions or ideas from the show(s) you watched.								
2. Discuss two of the questions or ideas with your counselor.								
B. Read (about three hours total) about motion or motion-inspired 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. Choose ONE merit badge from the following list. (Choose one you have not already used for another Nova award.) After completion, discuss with your								
counselor how the merit badge you earned uses engineering.								
Archery Inventing								
Aviation								
Model Design and Building								
Composite Materials								
Railroading								
Drafting								
Rifle Shooting								
Electronics								
Robotics								
Engineering								
Shotgun Shooting								
3. Do ALL of the following:								
A. Make a list or drawing of the six simple machines.								
B. Be able to tell your counselor the name of each machine and how each machine works.								
C. Discuss the following with your counselor:								
 The simple machines that were involved with the motion in your chosen merit badge (Hint: Look at the moving parts of an engine to find simple 								
machines.)								
2. The energy source causing the motion for the subject of your merit badge								
3. What you learned about motion from earning your merit badge								igwdap
4. Choose A or B and complete ALL the requirements.								
A. Visit an amusement park. Then discuss the following with your counselor:								
1. The simple machines present in at least two of the rides								
2. The forces involved in the motion of any two rides								
B. Visit a playground. Then discuss the following with your counselor:								
The simple machines present in the playground equipment								ш

WHOOSH! Patrol- Raven	Aaron Sauer	Brian Guiana	Cameron Uli	Chase Sullivan	Joshua Lindgren	Mark Szobonya	Mathew Kemper	Ryan Morgan
2. The forces involved in the motion of any two playground fixtures								
5. Do the following:								
A. On your own, design one of the following and include a drawing or sketch: an amusement park ride OR a playground fixture OR a method of transportation.								
B. Discuss with your counselor:								
1. The simple machines present in your design								
2. The energy source powering the motion of your creation								
6. Discuss with your counselor how engineering affects your everyday life.								

WHOOSH! Patrol- Troll	Braden Dykstra	Braeden Chadwell	Brandon Derr	Brandon Foster	Gavin Culbertson	Hunter Sparks	Jack Akers	Jake Kerby	Jared Kerby	Jonathan Porter	Mason Cheney	Michael George
1. Choose A or B or C and complete ALL the requirements.											\blacksquare	
A. Watch about three hours total of engineering-related shows or documentaries that involve motion or motion-inspired technology. Then do the following:												
Make a list of at least five questions or ideas from the show(s) you watched.												
2. Discuss two of the questions or ideas with your counselor.	1										\Box	\neg
B. Read (about three hours total) about motion or motion-inspired technology.												
Then do the following:												
1. Make a list of at least two questions or ideas from each article.											П	
2. Discuss two of the questions or ideas with your counselor.												\Box
C. Do a combination of reading and watching (about three hours total). Then do the following:												
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. Choose ONE merit badge from the following list. (Choose one you have not												
already used for another Nova award.) After completion, discuss with your												
counselor how the merit badge you earned uses engineering.												
Archery												
Inventing												
Aviation												
Model Design and Building												
Composite Materials												
Railroading												
Drafting												
Rifle Shooting												
Electronics												
Robotics												
Engineering Shotgun Shooting	_											
3. Do ALL of the following:											\blacksquare	
A. Make a list or drawing of the six simple machines.												
B. Be able to tell your counselor the name of each machine and how each												
machine works.												
C. Discuss the following with your counselor:												
1. The simple machines that were involved with the motion in your chosen												
merit badge (Hint: Look at the moving parts of an engine to find simple machines.)												1
2. The energy source causing the motion for the subject of your merit badge												
3. What you learned about motion from earning your merit badge												
4. Choose A or B and complete ALL the requirements.												
A. Visit an amusement park. Then discuss the following with your counselor:												
1. The simple machines present in at least two of the rides												
2. The forces involved in the motion of any two rides												
B. Visit a playground. Then discuss the following with your counselor:												
The simple machines present in the playground equipment												

WHOOSH! Patrol- Troll	Braden Dykstra	Braeden Chadwell	Brandon Derr	Brandon Foster	Gavin Culbertson	Hunter Sparks	Jack Akers	Jake Kerby	Jared Kerby	Jonathan Porter	Mason Cheney	Michael George
2. The forces involved in the motion of any two playground fixtures												
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B. Discuss with your counselor:												
1. The simple machines present in your design												
2. The energy source powering the motion of your creation												
6. Discuss with your counselor how engineering affects your everyday life.												

WHOOSH! Patrol- Viper 1. Choose A or 8 or C and complete ALL the requirements. A. Watch about three hours total of engineering-related shows or documentaries that involve motion or motion-inspired technology. Then do the following: 1. Make a list of at least five questions or ideas from the show(s) you watched. 2. Discuss two of the questions or ideas with your counselor. 8. Read (about three hours total) about motion or motion-inspired 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. 2. Discuss two of the questions or ideas with your counselor. 2. Discuss two of the questions or ideas with your counselor. 2. Discuss two of the questions or ideas with your counselor. 2. Discuss two of the questions or ideas with your counselor. 2. Discuss two of the questions or ideas with your counselor. 2. Choose ONE merit badge from the following list. (Choose one you have not already used for another Nova award.) After completion, discuss with your counselor another Nova award.) After completion, discuss with your counselor how the merit badge from the following list. (Choose one you have not already used for another Nova award.) After completion, discuss with your counselor how the merit badge you earned uses engineering. Archery Inventing Availation Model Design and Building Composite Materials Railroading Drafting Rifle Shooting 3. Do All of the following: 1. The simple machines that were involved with the motion in your chosen merit badge (finit: Look at the moving parts of an engine to find simple machines works. 2. Discuss the following with your counselor: 1. The simple machines present in at least two of the rides 3. What you learned about motion from earning your merit badge 4. Choose A or 8 and complete All the requirements. A. Vist an answerment park. Then discuss the following with your counselor: 1. The simple machines present in the plagground equipment									
1. Choose A or B or C and complete ALL the requirements. A. Watch about three hours total of engineering-related shows or documentaries that involve motion or motion-inspired technology. Then do the following: 1. Make a list of at least five questions or ideas from the show(s) you watched. 2. Discuss two of the questions or ideas with your counselor. 8. Read (about three hours total) about motion or motion-inspired 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. 2. Discuss two of the questions or ideas with your counselor. 2. Discuss two of the questions or ideas with your counselor. 2. Discuss two of the questions or ideas with your counselor. 2. Choose ONE merit badge from the following list. (Choose one you have not already used for another Nova award.) After completion, discuss with your counselor how the merit badge vou earned uses engineering. Archery. Archery. Inventing. Aviation Model Design and Building. Composite Materials Railroading. Drafting. Rifle Shooting. Electronics Robotics. Engineering. 3. Do ALL of the following: 1. The simple machines that were involved with the motion in your chosen merit badge (lint: Look at the moving parts of an engine to find simple machines.) 2. What you learned about motion from earning your merit badge 3. What you learned about motion from earning your merit badge 3. What you learned about motion from earning your counselor: 1. The simple machines present in at least two of the rides 2. This forces involved in the motion of any two rides 3. Wist a playground. Then discuss the following with your counselor: 1. The simple machines present in at least two of the rides 2. The forces involved in the motion of any two rides 3. Wist a playground. Then discuss the following with your counselor:	WHOOSH! Patrol- Viper	Aaron Northup	CJ Hamann	DJ Claiborne	Koby Wheeler	Mathew Thompson	Thomas Hunt	Tim Brackus	Wesley Runner
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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. Choose ONE merit badge from the following list. (Choose one you have not already used for another Nova award.) After completion, discuss with your counselor how the merit badge vou earned uses engineering. Archery Inventing Aviation Model Design and Building Composite Materials Railroading Drafting Rifle Shooting Electronics Robotics Engineering Shotoun Shooting 3. Do ALL of the following: A. Make a list or drawing of the six simple machines. B. Be able to tell your counselor the name of each machine and how each machine works. C. Discuss the following with your counselor: 1. The simple machines that were involved with the motion in your chosen merit badge (Hint: Look at the moving parts of an engine to find simple machines.) 2. The energy source causing the motion from earning your merit badge 4. Choses A or B and complete ALL the requirements. A. Visit an amusement park. Then discuss the following with your counselor: 1. The simple machines present in at least two of the rides 2. The forces involved in the motion of any two rides B. Visit a playyround. Then discuss the following with your counselor:									
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WHOOSH! Patrol- Viper	Aaron Northup	CJ Hamann	DJ Claiborne	Koby Wheeler	Mathew Thompson	Thomas Hunt	Tim Brackus	Wesley Runner
2. The forces involved in the motion of any two playground fixtures								
5. Do the following:								
A. On your own, design one of the following and include a drawing or sketch: an amusement park ride OR a playground fixture OR a method of transportation.								
B. Discuss with your counselor:								
1. The simple machines present in your design								
2. The energy source powering the motion of your creation								
6. Discuss with your counselor how engineering affects your everyday life.								