Designed to Crunch! 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 or D and complete ALL the requirements.								
A. Watch about three hours total math-related shows or documentaries that involve scientific models and modeling, physics, sports equipment design, bridge building, or cryptography. 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. Research (about three hours total) several websites (with your parent's or guardian's permission) that discuss and explain cryptography or the discoveries of people who worked extensively with cryptography. Then do the following:								
1. List and record the URLs of the websites you visited and the major topics covered on the websites you visited. (You may use the copy and paste function—eliminate the words—if you include your sources.)								
2. Discuss with your counselor how cryptography is used in the military and in everyday life and how a cryptographer uses mathematics.								
C. Read at least three articles (about three hours total) about physics, math, modeling, or cryptography. You may wish to read about how technology and engineering are changing sports equipment, how and why triangles are used in construction, bridge building, engineering, climate and/or weather models, how banks keep information secure, or about the stock market. 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.								
D. Do a combination of reading, watching, or researching (about three hours total). Then do the following:								
1. Make a list of at least two questions or ideas from each article, website, or show.								
2. Discuss two of the questions or questions 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 mathematics.								
American Business								
Orienteering								
Chess								
Personal Management								
Computers								
Radio								
Drafting								
Surveying								
Entrepreneurship								
Weather								
3. Choose TWO from A or B or C or D or E and complete ALL the requirements. (Write down your data and calculations to support your explanation to your counselor. You may use a spreadsheet. Do not use someone else's data or calculations.)								
A. Calculate your horsepower when you run up a flight of stairs.								
1. How does your horsepower compare to the power of a horse?								
2. How does your horsepower compare to the horsepower of your favorite car?								

Designed to Crunch! Patrol- Blackhawks	Austin Adams	Ethan Northup	Evan White	Ian Kerby	Nathen Hebert	Nicko Moran	Noah Dynka	Ryan Dynka
3. Discuss with your counselor:								
B. Attend at least two track, cross-country, or swim meets.								
1. For each meet, time at least three racers. (Time the same racers at each meet.)								
2. Calculate the average speed of the racers you timed. (Make sure you write down your data and calculations.)								
3. Compare the average speeds of your racers to each other, to the official time, and to their times at the two meets you attended.								
4. Share your calculations with your counselor, and discuss your conclusions about the racers' strengths and weaknesses.								
C. Attend a soccer, baseball, softball, or basketball game. Choose two players and keep track of their efforts during the game. (Make sure you write down your data and calculations.) Calculate their statistics using the following as examples:								
1. Soccer—Goals, assists, corner kicks, keeper saves, fouls, offsides								
2. Baseball or softball—Batting average, runs batted in, fielding statistics, pitching statistics								
3. Basketball—Points, baskets attempted, rebounds, steals, turnovers, and blocked shots								
4. Share your calculations with your counselor, and discuss your conclusions about the players' strengths and weaknesses.								
D. Attend a football game or watch one on TV. (This is a fun activity to do with a parent or friend!) Keep track of the efforts of your favorite team during the game. (Make sure you write down your data and calculations.) Calculate your team's statistics using the following as examples:								
1. Kicks/punts								
a. Kickoff—Kick return yards								
b. Punt—Number, yards								
c. Field goals—Attempted, percent completed, yards								
d. Extra point—Attempted, percent completed								
2. Offense								
a. Number of first downs								
b. Forward passes—Attempted, percent completed, total length of passes, longest pass, number and length of passes caught by each receiver, yardage gained by each receiver after catching a pass								
c. Running plays—Number, yards gained or lost for each run, longest run from scrimmage line, total yards gained or lost, and number of touchdowns								
3. Defense—Number of quarterback sacks, interceptions turnovers, and safeties								
4. Share your calculations with your counselor, and discuss your conclusions about your team's strengths and weaknesses.								
E. How starry are your nights? Participate in a star count to find out. This may be done alone but is more fun with a group. Afterward, share your results with your counselor.								
1. Visit NASA's Student Observation Network website at www.nasa.gov/audience/foreducators/son/energy/starcount/ for instructions on performing a star count.								
2. Do a star count on five clear nights at the same time each night.								
3. Report your results on NASA's Student Observation Network website and see how your data compares to others.								

Designed to Crunch! Patrol- Blackhawks	Austin Adams	Ethan Northup	Evan White	Ian Kerby	Nathen Hebert	Nicko Moran	Noah Dynka	Ryan Dynka
4. Do ALL of the following.								
A. Investigate your calculator and explore the different functions.								
B. Discuss the functions, abilities, and limitations of your calculator with your counselor. Talk about how these affect what you can and cannot do with a calculator. (See your counselor for some ideas to consider.)								
5. Discuss with your counselor how math affects your everyday life.								

Designed to Crunch! Patrol- Blue Pheonix

	Chase Seeberger	Conner Godfrey	Conner Maxey	Dexter Siroky	Kyle Hardy	Luke Farrell	Sam Burch	Sean Taylor	Trey Oletski	Zane McClish
1. Choose A or B or C or D and complete ALL the requirements.										
A. Watch about three hours total math-related shows or documentaries that involve scientific models and modeling, physics, sports equipment design, bridge building, or cryptography. 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. Research (about three hours total) several websites (with your parent's or guardian's permission) that discuss and explain cryptography or the discoveries of people who worked extensively with cryptography. Then do the following:										
1. List and record the URLs of the websites you visited and the major topics covered on the websites you visited. (You may use the copy and paste function—eliminate the words—if you include your sources.)										
2. Discuss with your counselor how cryptography is used in the military and in everyday life and how a cryptographer uses mathematics.										
C. Read at least three articles (about three hours total) about physics, math, modeling, or cryptography. You may wish to read about how technology and engineering are changing sports equipment, how and why triangles are used in construction, bridge building, engineering, climate and/or weather models, how banks keep information secure, or about the stock market. 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.										
D. Do a combination of reading, watching, or researching (about three hours total). Then do the following:										
1. Make a list of at least two questions or ideas from each article, website, or show.										
2. Discuss two of the questions or questions 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 mathematics.										
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Orienteering										
Chess										
Personal Management										
Computers										
Radio										
Drafting										
Surveying										
Entrepreneurship										
Weather										
3. Choose TWO from A or B or C or D or E and complete ALL the requirements. (Write down your data and calculations to support your explanation to your counselor. You may use a spreadsheet. Do not use someone else's data or calculations.)										
A. Calculate your horsepower when you run up a flight of stairs.										
1. How does your horsepower compare to the power of a horse?										
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Designed to Crunch! Patrol- Blue Pheonix

	Chase Seeberger	Conner Godfrey	Conner Maxey	Dexter Siroky	Kyle Hardy	Luke Farrell	Sam Burch	Sean Taylor	Trey Oletski	Zane McClish
3. Discuss with your counselor:										
B. Attend at least two track, cross-country, or swim meets.										
1. For each meet, time at least three racers. (Time the same racers at each meet.)										
2. Calculate the average speed of the racers you timed. (Make sure you write down your data and calculations.)										
3. Compare the average speeds of your racers to each other, to the official time, and to their times at the two meets you attended.										
4. Share your calculations with your counselor, and discuss your conclusions about the racers' strengths and weaknesses.										
C. Attend a soccer, baseball, softball, or basketball game. Choose two players and keep track of their efforts during the game. (Make sure you write down your data and calculations.) Calculate their statistics using the following as examples:										
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2. Baseball or softball—Batting average, runs batted in, fielding statistics, pitching statistics										
3. Basketball—Points, baskets attempted, rebounds, steals, turnovers, and blocked shots										
4. Share your calculations with your counselor, and discuss your conclusions about the players' strengths and weaknesses.										
D. Attend a football game or watch one on TV. (This is a fun activity to do with a parent or friend!) Keep track of the efforts of your favorite team during the game. (Make sure you write down your data and calculations.) Calculate your team's statistics using the following as examples:										
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a. Number of first downs										
b. Forward passes—Attempted, percent completed, total length of passes, longest pass, number and length of passes caught by each receiver, yardage gained by each receiver after catching a pass										
c. Running plays—Number, yards gained or lost for each run, longest run from scrimmage line, total yards gained or lost, and number of touchdowns										
3. Defense—Number of quarterback sacks, interceptions turnovers, and safeties										
4. Share your calculations with your counselor, and discuss your conclusions about your team's strengths and weaknesses.										
E. How starry are your nights? Participate in a star count to find out. This may be done alone but is more fun with a group. Afterward, share your results with your counselor.										
1. Visit NASA's Student Observation Network website at www.nasa.gov/audience/foreducators/son/energy/starcount/ for instructions on performing a star count.										
2. Do a star count on five clear nights at the same time each night.										
3. Report your results on NASA's Student Observation Network website and see how your data compares to others.										

Designed to Crunch! Patrol- Blue Pheonix

	Chase Seeberger	Conner Godfrey	Conner Maxey	Dexter Siroky	Kyle Hardy	Luke Farrell	Sam Burch	Sean Taylor	Trey Oletski	Zane McClish
4. Do ALL of the following.										
A. Investigate your calculator and explore the different functions.										
B. Discuss the functions, abilities, and limitations of your calculator with your counselor. Talk about how these affect what you can and cannot do with a calculator. (See your counselor for some ideas to consider.)										
5. Discuss with your counselor how math affects your everyday life.										

Designed to Crunch! 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 or D and complete ALL the requirements.								
A. Watch about three hours total math-related shows or documentaries that involve scientific models and modeling, physics, sports equipment design, bridge building, or cryptography. 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. Research (about three hours total) several websites (with your parent's or guardian's permission) that discuss and explain cryptography or the discoveries of people who worked extensively with cryptography. Then do the following:								
1. List and record the URLs of the websites you visited and the major topics covered on the websites you visited. (You may use the copy and paste function—eliminate the words—if you include your sources.)								
2. Discuss with your counselor how cryptography is used in the military and in everyday life and how a cryptographer uses mathematics.								
C. Read at least three articles (about three hours total) about physics, math, modeling, or cryptography. You may wish to read about how technology and engineering are changing sports equipment, how and why triangles are used in construction, bridge building, engineering, climate and/or weather models, how banks keep information secure, or about the stock market. 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.								
D. Do a combination of reading, watching, or researching (about three hours total). Then do the following:								
1. Make a list of at least two questions or ideas from each article, website, or show.								
2. Discuss two of the questions or questions 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 mathematics.								
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Orienteering								
Chess								
Personal Management								
Computers								
Radio								
Drafting								
Surveying								
Entrepreneurship								
Weather								
3. Choose TWO from A or B or C or D or E and complete ALL the requirements. (Write down your data and calculations to support your explanation to your counselor. You may use a spreadsheet. Do not use someone else's data or calculations.)								
A. Calculate your horsepower when you run up a flight of stairs.								
1. How does your horsepower compare to the power of a horse?								
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Designed to Crunch! Patrol- Raven	Aaron Sauer	Brian Guiana	Cameron Uli	Chase Sullivan	Joshua Lindgren	Mark Szobonya	Mathew Kemper	Ryan Morgan
3. Discuss with your counselor:								
B. Attend at least two track, cross-country, or swim meets.								
1. For each meet, time at least three racers. (Time the same racers at each meet.)								
2. Calculate the average speed of the racers you timed. (Make sure you write down your data and calculations.)								
3. Compare the average speeds of your racers to each other, to the official time, and to their times at the two meets you attended.								
4. Share your calculations with your counselor, and discuss your conclusions about the racers' strengths and weaknesses.								
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3. Basketball—Points, baskets attempted, rebounds, steals, turnovers, and blocked shots								
4. Share your calculations with your counselor, and discuss your conclusions about the players' strengths and weaknesses.								
D. Attend a football game or watch one on TV. (This is a fun activity to do with a parent or friend!) Keep track of the efforts of your favorite team during the game. (Make sure you write down your data and calculations.) Calculate your team's statistics using the following as examples:								
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a. Number of first downs								
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3. Defense—Number of quarterback sacks, interceptions turnovers, and safeties								
4. Share your calculations with your counselor, and discuss your conclusions about your team's strengths and weaknesses.								
E. How starry are your nights? Participate in a star count to find out. This may be done alone but is more fun with a group. Afterward, share your results with your counselor.								
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Designed to Crunch! Patrol- Raven

	Aaron Sauer	Brian Guiana	Cameron Uli	Chase Sullivan	Joshua Lindgren	Mark Szobonya	Mathew Kemper	Ryan Morgan
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A. Investigate your calculator and explore the different functions.								
B. Discuss the functions, abilities, and limitations of your calculator with your counselor. Talk about how these affect what you can and cannot do with a calculator. (See your counselor for some ideas to consider.)								
5. Discuss with your counselor how math affects your everyday life.								

Designed to Crunch! 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
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Designed to Crunch! 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
3. Discuss with your counselor:												
B. Attend at least two track, cross-country, or swim meets.												
1. For each meet, time at least three racers. (Time the same racers at each meet.)												
2. Calculate the average speed of the racers you timed. (Make sure you write down your data and calculations.)												
3. Compare the average speeds of your racers to each other, to the official time, and to their times at the two meets you attended.												
4. Share your calculations with your counselor, and discuss your conclusions about the racers' strengths and weaknesses.												
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4. Share your calculations with your counselor, and discuss your conclusions about the players' strengths and weaknesses.												
D. Attend a football game or watch one on TV. (This is a fun activity to do with a parent or friend!) Keep track of the efforts of your favorite team during the game. (Make sure you write down your data and calculations.) Calculate your team's statistics using the following as examples:												
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a. Number of first downs												
b. Forward passes—Attempted, percent completed, total length of passes, longest pass, number and length of passes caught by each receiver, yardage gained by each receiver after catching a pass												
c. Running plays—Number, yards gained or lost for each run, longest run from scrimmage line, total yards gained or lost, and number of touchdowns												
3. Defense—Number of quarterback sacks, interceptions turnovers, and safeties												
4. Share your calculations with your counselor, and discuss your conclusions about your team's strengths and weaknesses.												
E. How starry are your nights? Participate in a star count to find out. This may be done alone but is more fun with a group. Afterward, share your results with your counselor.												
1. Visit NASA's Student Observation Network website at www.nasa.gov/audience/foreducators/son/energy/starcount/ for instructions on performing a star count.												
2. Do a star count on five clear nights at the same time each night.												
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	Braden Dykstra	Braeden Chadwell	Brandon Derr	Brandon Foster	Gavin Culbertson	Hunter Sparks	Jack Akers	Jake Kerby	Jared Kerby	Jonathan Porter	Mason Cheney	Michael George
4. Do ALL of the following.												
A. Investigate your calculator and explore the different functions.												
B. Discuss the functions, abilities, and limitations of your calculator with your counselor. Talk about how these affect what you can and cannot do with a calculator. (See your counselor for some ideas to consider.)												
5. Discuss with your counselor how math affects your everyday life.												

Designed to Crunch! Patrol- Viper

	Aaron Northup	CJ Hamann	DJ Claiborne	Koby Wheeler	Mathew Thompson	Thomas Hunt	Tim Brackus	Wesley Runner
1. Choose A or B or C or D and complete ALL the requirements.								
A. Watch about three hours total math-related shows or documentaries that involve scientific models and modeling, physics, sports equipment design, bridge building, or cryptography. 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. Research (about three hours total) several websites (with your parent's or guardian's permission) that discuss and explain cryptography or the discoveries of people who worked extensively with cryptography. Then do the following:								
1. List and record the URLs of the websites you visited and the major topics covered on the websites you visited. (You may use the copy and paste function—eliminate the words—if you include your sources.)								
2. Discuss with your counselor how cryptography is used in the military and in everyday life and how a cryptographer uses mathematics.								
C. Read at least three articles (about three hours total) about physics, math, modeling, or cryptography. You may wish to read about how technology and engineering are changing sports equipment, how and why triangles are used in construction, bridge building, engineering, climate and/or weather models, how banks keep information secure, or about the stock market. 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.								
D. Do a combination of reading, watching, or researching (about three hours total). Then do the following:								
1. Make a list of at least two questions or ideas from each article, website, or show.								
2. Discuss two of the questions or questions with your counselor.								
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American Business								
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Computers								
Radio								
Drafting								
Surveying								
Entrepreneurship								
Weather								
3. Choose TWO from A or B or C or D or E and complete ALL the requirements. (Write down your data and calculations to support your explanation to your counselor. You may use a spreadsheet. Do not use someone else's data or calculations.)								
A. Calculate your horsepower when you run up a flight of stairs.								
1. How does your horsepower compare to the power of a horse?								
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Designed to Crunch! Patrol- Viper	Aaron Northup	CJ Hamann	DJ Claiborne	Koby Wheeler	Mathew Thompson	Thomas Hunt	Tim Brackus	Wesley Runner
3. Discuss with your counselor:								
B. Attend at least two track, cross-country, or swim meets.								
1. For each meet, time at least three racers. (Time the same racers at each meet.)								
2. Calculate the average speed of the racers you timed. (Make sure you write down your data and calculations.)								
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4. Share your calculations with your counselor, and discuss your conclusions about the players' strengths and weaknesses.								
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a. Number of first downs								
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2. Do a star count on five clear nights at the same time each night.								
3. Report your results on NASA's Student Observation Network website and see how your data compares to others.								

Designed to Crunch! Patrol- Viper	Aaron Northup	CJ Hamann	DJ Claiborne	Koby Wheeler	Mathew Thompson	Thomas Hunt	Tim Brackus	Wesley Runner
4. Do ALL of the following.								
A. Investigate your calculator and explore the different functions.								
B. Discuss the functions, abilities, and limitations of your calculator with your counselor. Talk about how these affect what you can and cannot do with a calculator. (See your counselor for some ideas to consider.)								
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