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Northglenn HS

STEM Pathway

# 2016-2017 Application

# Checklist:

Please mark off each item below once it has been completed.

[ ] STEM Application [ ] Pathway Specific Innovation Task

[ ] Math/Science Teacher Recommendation [ ] School Records (Grades, Attendance, Discipline)

[ ] General Teacher Recommendation [ ] Post High School Education Commitment

**Accepted from November 2 – December 11, 2015 (no late applications)**

# Step 1: Personal Information – PRINT CLEARLY

Full Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Birthdate: \_\_\_\_\_\_\_\_\_\_ Gender: \_\_\_\_\_ Current Grade: 8 or 9

circle one

Street Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_# \_\_\_\_\_\_ City: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Zip: \_\_\_\_\_\_\_\_\_\_\_\_

AD 12 Student #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Parent/Guardian Names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Home Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cell: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Current School: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ School District: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Boundary High School: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Boundary District: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Step 2: Post High School Education Commitment

“I, the undersigned, understand that I am enrolling in a rigorous course of study which prepares me to enter an institute of higher learning.  If accepted into a STEM Pathway, I agree to continue my formal education and apply to an institute of higher learning upon graduation of Northglenn High School STEM.  Institutes include four-year universities and colleges, community/junior colleges, and trade/vocational schools.”

Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Office Use Only.*

*Date submitted: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [ ] App. [ ] Ed Co [ ] IT [ ] Rec 1 [ ] Rec 2 [ ] Trans [ ] Att [ ] Disc*

*Pathway Selection: \_\_\_\_ Engineering \_\_\_\_ Biomedical \_\_\_\_ By Design: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Boundary School: [ ] Horizon [ ] Legacy [ ] Mountain Range [ ] Northglenn [ ] Thornton [ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Boundary District: [ ] Adams 12 [ ] Adams 50 [ ] Brighton 27J [ ] Denver [ ] Jefferson [ ] Mapleton [ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*Decision: [ ] Accept [ ] Waitlist #\_\_\_\_\_ [ ] Decline*

# Step 3: Select Your Pathway

Mark your selection with an “X”

|  |  |  |
| --- | --- | --- |
| [ ] Engineering Year 1: Intro to Engineering Design  Year 2: Principles of Engineering  Year 3: Aerospace or AP Computer Sci.  Year 4: Engineering Design & Dev.  Ex: Engineers, Technicians, Computer Scientists, Architects | [ ] Biomedical Year 1: Principles of Biomedical Sci.  Year 2: Human Body Systems  Year 3: Medical Interventions  Year 4: Biomedical Innovations  Ex: Medical Practitioners, Veterinarians, Forensic Scientists, Medical Researchers | By Design [ ] Business/Marketing  [ ] Culinary  [ ] Design (Web, Interior, Fine Art, etc.)  [ ] Graphic Communication  [ ] Law and Justice  [ ] Theatre |

# Step 4: Pathway Specific Innovation Task

Include with your application. Use any format you want.

|  |
| --- |
| **Engineering Pathway: Complete one of these options**   1. Create a design proposal for a new student desk in a 21st century classroom. Include annotated sketches and a design brief. 2. Describe innovations that can be made to a high school student’s backpack. Make sure your design includes charging capabilities for technology. 3. Describe a technological advancement in the United States that could be adjusted for use in a developing country. |
| **Biomedical Pathway: Complete one of these options**   1. Design an innovation that would help students experience longer and healthier lives. 2. Describe a leading health concern of adolescents and propose a medical innovation that may aid the treatment of this concern. 3. Describe a current medical innovation and explain some adjustments you would make that would improve its effectiveness. |
| **By Design Pathway: Complete one of these options**   1. Describe a new product to bring to market. Include the Executive Summary from your business plan. 2. Write and illustrate a storybook that teaches children how to solve a difficult problem or addresses an important issue. 3. Write a skit that teaches incoming sixth graders how to be successful in middle school. 4. Design a concept for a new restaurant and submit a sign, advertisement, layout sketch, and menu. |

# Step 5: Letters of Recommendation

Attached are **two** recommendation letters. One needs to be completed by your math or science teacher. A teacher of your choosing can complete the other. The completed letters needs to be faxed, (720) 972-4739**,** or mailed to Northglenn High School.

# Step 6: School Records

Include: an unofficial copy of your current transcript, at least a year’s attendance, and any discipline records.

|  |  |  |
| --- | --- | --- |
| Mail or Deliver to:  Northglenn HS STEM  Attn: Application  601 W. 100th Place  Northglenn, CO 80260 | For questions, feel free to contact a STEM Coordinator. | |
| Mr. Kerry Glenn  [Kerry.Glenn@adams12.org](mailto:Kerry.Glenn@adams12.org)  720-972-4629 | Mr. JP Sampson  [JohnPaul.Sampson@adams12.org](mailto:JohnPaul.Sampson@adams12.org)  720-972-4689 |

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# Current Math or Science Teacher Recommendation for 2016-2017 STEM Program

Printed Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Current School: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

All information will be kept confidential.

What is the name of the class(es) in which you’ve had this student? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Please rank this applicant’s abilities. 5 = Exceptional (Top 5%), 4 = Excellent (Top 10%), 3 = Average, 2 = Fair, 1 = Poor, N = Not Sure

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1. Demonstrates academic ability. | 5 | 4 | 3 | 2 | 1 | N |
| 2. Follows through on work. | 5 | 4 | 3 | 2 | 1 | N |
| 3. Driven by curiosity. | 5 | 4 | 3 | 2 | 1 | N |
| 4. Willing to take reasonable risks. | 5 | 4 | 3 | 2 | 1 | N |
| 5. Responsible. | 5 | 4 | 3 | 2 | 1 | N |
| 6. Generates questions on his or her own – questions the common or unusual. | 5 | 4 | 3 | 2 | 1 | N |
| 7. Approaches difficult problems with ingenuity. | 5 | 4 | 3 | 2 | 1 | N |
| 8. Functions well within a team. | 5 | 4 | 3 | 2 | 1 | N |
| 9. Self-directed; requires a minimum of adult direction and attention. | 5 | 4 | 3 | 2 | 1 | N |
| 10. Able to plan and organize activities, direct actions, and evaluate results. | 5 | 4 | 3 | 2 | 1 | N |
| 11. Completes high quality work as directed and on time. | 5 | 4 | 3 | 2 | 1 | N |
| 12. Attends class regularly. | 5 | 4 | 3 | 2 | 1 | N |
|  |  |  |  |  |  |  |
| Overall recommendation of this applicant | 5 | 4 | 3 | 2 | 1 |  |

Please share your candid opinions about this student’s ability to be successful in a STEM Program.

Thank you for your time!

Evaluator’s Printed Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Evaluator’s Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_

**Please return to:** **or you may fax to:**

**Northglenn HS STEM (720) 972-4739**

**Attn: Application**

**601 W. 100th Place**

**Northglenn, CO 80260**

Recommendation must be RECEIVED by 12/11/2015.

# Teacher Recommendation for 2016-2017 STEM Program

Printed Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Current School: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

All information will be kept confidential.

What is the name of the class(es) in which you’ve had this student? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Please rank this applicant’s abilities. 5 = Exceptional (Top 5%), 4 = Excellent (Top 10%), 3 = Average, 2 = Fair, 1 = Poor, N = Not Sure

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1. Demonstrates academic ability. | 5 | 4 | 3 | 2 | 1 | N |
| 2. Follows through on work. | 5 | 4 | 3 | 2 | 1 | N |
| 3. Driven by curiosity. | 5 | 4 | 3 | 2 | 1 | N |
| 4. Willing to take reasonable risks. | 5 | 4 | 3 | 2 | 1 | N |
| 5. Responsible. | 5 | 4 | 3 | 2 | 1 | N |
| 6. Generates questions on his or her own – questions the common or unusual. | 5 | 4 | 3 | 2 | 1 | N |
| 7. Approaches difficult problems with ingenuity. | 5 | 4 | 3 | 2 | 1 | N |
| 8. Functions well within a team. | 5 | 4 | 3 | 2 | 1 | N |
| 9. Self-directed; requires a minimum of adult direction and attention. | 5 | 4 | 3 | 2 | 1 | N |
| 10. Able to plan and organize activities, direct actions, and evaluate results. | 5 | 4 | 3 | 2 | 1 | N |
| 11. Completes high quality work as directed and on time. | 5 | 4 | 3 | 2 | 1 | N |
| 12. Attends class regularly. | 5 | 4 | 3 | 2 | 1 | N |
|  |  |  |  |  |  |  |
| Overall recommendation of this applicant | 5 | 4 | 3 | 2 | 1 |  |

Please share your candid opinions about this student’s ability to be successful in a STEM Program.

Thank you for your time!

Evaluator’s Printed Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Evaluator’s Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_

**Please return to:** **or you may fax to:**

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