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Northglenn HS

STEM

# 2015-2016 Application

# Checklist:

Please mark off each item below once it’s been completed.

[ ] STEM Application [ ] Innovation Task

[ ] Math/Science Teacher Recommendation [ ] General Teacher Recommendation

[ ] Transcript [ ] Attendance Record – Complete Year

**Deadline: Application must be received by December 15, 2014**

# Step 1: Personal Information

Full Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Birthdate: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Gender: \_\_\_\_\_

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

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

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

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

*Office Use Only.*

*Date submitted: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ [ ] App. [ ] IT [ ] Rec 1 [ ] Rec 2 [ ] Trans [ ] AR*

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

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

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

# Step 2: Rank the Pathways

Students are not committing to a pathway at this time. This is for scheduling purposes only.

Label your first choice “1”, second choice “2”, and third choice “3”

|  |  |  |
| --- | --- | --- |
| [ 1 2 3 ] Engineering The PLTW Engineering Program is a sequence of courses, which follows a proven hands-on, real-world problem-solving approach to learning. Students learn and apply the design process, acquire strong teamwork and communication proficiency and develop organizational, critical-thinking, and problem-solving skills. They discover the answers to questions like how are things made and what processes go into creating products? Students use the same industry-leading 3D design software used by companies like Intel, Lockheed Martin and Pixar. They explore aerodynamics, astronautics and space life sciences. Students apply biological and engineering concepts related to biomechanics – think robotics. They design, test and actually construct circuits and devices such as smart phones and tablets and work collaboratively on a culminating capstone project. | [ 1 2 3 ] Biomedical The PLTW Biomedical Sciences Program is a sequence of courses, all aligned with appropriate national learning standards, which follows a proven hands-on, real-world problem-solving approach to learning. Students explore the concepts of human medicine and are introduced to topics such as physiology, genetics, microbiology and public health. Through activities, like dissecting a heart, students examine the processes, structures and interactions of the human body – often playing the role of biomedical professionals. They also explore the prevention, diagnosis and treatment of disease, working collaboratively to investigate and design innovative solutions to the health challenges of the 21st century such as fighting cancer with nanotechnology. | [ 1 2 3 ] By Design Northglenn High School offers a comprehensive menu of advanced electives. There are many other pathways students can explore through these electives. Including:  • Business/Marketing • Culinary • Entrepreneurship • Family and Consumer Sciences • Performing Arts • Physical Education • Political Science • Theatre • Visual Arts • World Language •  Problem-based learning is employed in every discipline. All pathways provide students with rich educational experiences rooted in authentic problems and defended before authentic audiences. |

# Step 3: Innovation Task

Choose One:

1. Create a design proposal for a new student desk in a 21st century classroom. Include annotated sketches and a design brief.
2. Describe what a 21st century physical education program should look like.
3. Explain what you see as the next major leap forward in game systems.
4. Explain the innovations you see happening that would help students experience longer and healthier lives.

# Step 4: 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 or mailed to Northglenn High School.

# Step 5: School Records

Include an unofficial copy of your current transcript and at least a year’s attendance record.

# Step 6: Submitting the Application

|  |  |  |
| --- | --- | --- |
| 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 2015-2016 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 December 15, 2014

# Teacher Recommendation for 2015-2016 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: \_\_\_\_\_\_\_\_\_

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