

It's All About

STEM

People living, working or visiting one of the 61 communities in the MWRA service area are able to quench their thirsts, bathe, flush toilets, do the dishes and water their lawns without much thought. MWRA treats and delivers drinking water from the Quabbin Reservoir and transports wastewater to Deer Island to be treated. But who are the people who keep these important systems running? They are men and women who studied the same things you are studying: Science, Technology, Engineering and Math, or "STEM."

POSTER

Judged in 3 categories:
Gr. K-2, 3-5 and 6-8

POSTER TOPIC

Create a poster showing a person or people doing their job in the water or wastewater field as it is related to Science, Technology, Engineering or Math.

WRITING

Judged in 2 categories:
Grades 3-5 and 6-8

WRITING TOPIC

Write an essay or poem about a day in the life of a water or wastewater worker who uses STEM subjects in their job.

VIDEO

Judged in 1 category:
Grade 9-12

VIDEO TOPIC

Create a video to recruit water and wastewater job applicants focusing on their Science, Technology, Engineering and Math skills.



Entries must be postmarked by Wednesday, March 11, 2015. Early entries are encouraged! Mail entries to : MWRA School Program, 2 Griffin Way, Chelsea, MA 02150. To see if you are eligible to participate, to obtain rules, and to download forms and student labels, visit us on-line at www.mwra.com and follow the link to the School Program page.

2014/15 MWRA Poster, Writing & Video Contest Rules & Details

Poster Contest



Question	Answer
Who is eligible for the contest?	All Massachusetts students in grades K-8 who attend school in one of MWRA's service communities and/or any student who lives in the MWRA district. Prizes are awarded in three categories: K-2, 3-5, and 6-8. All artwork must be the student's work, and only individual (not group) entries will be accepted. Only one entry per student.
How will entries be judged?	Judging is based on originality, clarity of message, use of materials, and quality of work.
What size should entries be?	Posters should be no smaller than 8 ½ x 11 and no larger than 18 x 24. Note: Posters will be returned only if indicated on the registration form.

Writing Contest



Question	Answer
Who is eligible for the contest?	All Massachusetts students in grades 3-8 who attend school in one of MWRA's service communities and/or live in the MWRA district. Prizes will be awarded in two categories: 3-5 and 6-8. Only individual (not group) entries will be accepted.
How will entries be judged?	Judging is based on factual accuracy, originality, creativity, clarity of thought, readability and persuasiveness.
How long should entries be?	Entries should be no longer than two single-sided pages and may be typed or written neatly in ink. Note: Writing entries will not be returned.

Video Contest



Question	Answer
Who is eligible for the contest?	All Massachusetts students in grades 9-12 who attend school in one of MWRA's service communities and/or live in the MWRA district. Prizes will be awarded in one category: 9-12. Students may work individually or in groups of no more than four.
How will entries be judged?	Judging is based on factual accuracy, originality, creativity, clarity of thought, and persuasiveness.
How long should entries be?	Entries should be 2-3 minutes long. Note: Entries will not be returned and may be posted on YouTube.

All Contests

Question	Answer
When is the contest deadline?	Entries must be postmarked by Wednesday, March 11, 2015 . Early entries encouraged.
What are the packaging instructions?	A Student Label must be attached to each entry. The label must be taped or glued securely to the back of the entry (no paper clips or staples). You may create your own label or neatly write information on the back of the entry as long as all information is included. Teachers must fill in the Contest Registration Form stating the grade level(s) and number of entries. If there are entries from more than one grade level, fill out separate forms.

2014/15 MWRA Poster, Writing & Video Contest Rules & Details

Can entries be dropped off at the MWRA?	We prefer entries be mailed to: MWRA School Program, 2 Griffin Way, Chelsea, MA 02150. Entries may be dropped off in Chelsea between the hours of 9:00 a.m. and 4:00 p.m., Monday through Friday only.
What are the prizes?	The first place winner(s) in each category receives a \$100 gift check. Second prize is a \$50 check and third prize is a \$25 check. Honorable Mention Awards will recognize other outstanding entries and each student who participates receives a certificate.
When will winners be announced?	Winners will be notified by mid April. Prizes will be awarded at a ceremony on Friday, May 22, 2015 at the Deer Island Treatment Plant. Contest winners, their families, teachers and principals are all invited to attend the ceremony.
Where can I get more information?	For information or to download forms, go to www.mwra.com and click on school program .

Frequently Asked Contest Questions (Teachers)

Q. What is the topic for this year's contest?

A. STEM Careers in the Water and Wastewater Field.

Q. Does the entire class have to participate?

A. While some teachers have their entire class participate, others make it optional or offer it as a means of extra credit. If you only have a few entries, we do ask that you still complete the Contest Registration Form and make sure the students fill out the Student Label and attach it securely to the back of the entry.

Q. Where do I get the Registration Form and Student Labels?

A. You can download all the forms from this page. Contest Information packets will be mailed to teachers on our database later this month. If you did not receive a packet and would like to receive a packet and be added to the database, please contact Vicki Mucci at vicki.mucci@mwra.com or 617-305-5670.

Q. If the entire class participates, should I sort through and only send in the best?

A. No, please send them all. This helps us to know how many students took part in the contest and enables us to send a Certificate of Participation to every entrant. **Please note:** we send blank certificates of participation for you, the teacher, to fill in the names.

Q. May I assist my students in any way?

A. We encourage class discussion to make sure the students stay on topic, but we ask that all work be done by the students themselves. We do allow teachers to assist students in grade K-2 with labeling and mounting of posters.

Q. Do posters have to be labeled and mounted?

A. No, but posters must be no smaller than 8.5" X 11" and no larger than 18" X 24".

Q. Must the writing entries be done on a computer?

A. No, they can be written neatly in ink. Writing entries should be no longer than 2 pages and use only one side of the paper.

Q. When is the contest deadline?

A. The contest deadline is **Wednesday, March 11, 2015**. Entries must be postmarked by this date and early entries are encouraged. Entries should be mailed to:

**MWRA School Contest
2 Griffin Way
Chelsea, MA 02150**

If you still have questions, contact Meg Tabacsko at meg.tabacsko@mwra.com.

Frequently Asked Contest Questions (Students)

General Questions about the Poster/Writing/Video Contests

Q. What are the Contest Topics?

A. The topic for all contests this year is: **Science, Technology, Engineering and Math (STEM)** careers in the water and wastewater field.

Poster Topic: Create a poster showing a person or people doing their job in the water or wastewater field as it is related to Science, Technology, Engineering or Math.

Writing Topic: Write an essay or poem about the day in the life of a water or wastewater worker who uses STEM subjects in their job.

Video Topic: Create a video to recruit water and wastewater job applicants focusing on their Science, Technology, Engineering and/or Math skills.

Q. Where do I find information about this topic?

A. Talk to your teachers. Visit your school or local library. Check out the web.

Q. What are the prizes?

A. First prize in each category is a \$100.00 gift check, 2nd prize is a \$50.00 check, and 3rd prize is a \$25.00 check. In the poster contest there are (3) categories Gr. K-2, 3-5, and 6-8. In the writing contest there are (2) categories are Gr. 3-5 and 6-8. In the video contest there is just one category: Gr. 9-12. In each of the (6) categories there is a 1st, 2nd, 3rd, and (3) honorable mention winners. All winners, including honorable mention winners, are invited with their families to an **Awards Ceremony** at Deer Island on **Friday, May 22, 2015**. Everyone who enters the contest will receive a Certificate of Participation – suitable for framing!

Q. What information needs to be included with my poster, writing, and/or video entry?

A. All posters, writing, and video entries must have a completed Student Label attached to the back of the entry. Labels should be taped or glued to the back of the entry (not paper clipped or stapled). Please do not attach labels to the front of the entries. You may create your own label or neatly write information on the back of your entry as long as all the information requested on the student label is included.

Q. Where do I get a Student Label?

A. Ask your teacher for one or you can download labels from this webpage.

Q. May I submit more than one entry?

A. If you are in grades 3-8, you may enter both the poster and writing contests. You may only submit one poster, one writing entry, or one video.

Q. Can friends work together?

A. Only individual work will be accepted for posters and writing entries. Up to four students can work together on videos.

Frequently Asked Contest Questions (Students)

Q. Will my entry be returned?

A. Posters will only be returned if requested. Writing and Video entries will not be returned.

Questions about the Poster Contest

Q. What makes a good poster?

A. Make sure your poster is on topic. Don't try to include too many ideas or activities on your poster. A single message, clearly illustrated, is more effective. If you use lettering, make sure it can be read from across a room. And, check your spelling!

Q. Do posters have to be drawings?

A. No, posters can be any form of art you choose to express the topic. You can create a collage with pictures cut out of a magazine, you can use pieces of fabric or you can create a drawing using markers, crayons, paints, or charcoal. We are looking for unique and creative works of art.

Posters must be no smaller than 8.5" X 11" and no bigger than 18" X 24". Be sure to attach a Student Label to the back of your poster.

Q. How will my poster be judged?

A. MWRA staff will select the strongest posters from the entries in each category. Then a panel of judges will score the posters on originality, clarity of message, creative and artistic use of materials, and quality of work.

Questions about the Writing Contest

Q. What makes a good writing entry?

A. First, be sure your entry addresses the question. As good as a piece might be, if it isn't on topic, it can't win a prize. Then, use your creativity to make your entry stand out. The reader should remember your work because there was something unique about it. An essay can be just as creative as a poem or dialogue, if it has a clear theme and develops it cleverly.

Q. How long should my writing entry be?

A. Writing entries are limited to two pages. Entries may be written neatly in ink or done on the computer. Please use only one side of the paper and be sure to attach a Student Label securely to the back of your entry.

Q. How will my writing entry be judged?

A. MWRA staff will select the best entries in each category. Copies will be given to a judging panel, which will first read and rate them and then meet to decide the winners. Writing entries will be judged on factual accuracy, creativity, originality and persuasiveness.

Frequently Asked Contest Questions (Students)

Questions about the Video Contest

Q. What makes a good video?

A. Make sure you stay on topic and your facts are accurate. Capture the viewers attention in a creative way. You can use graphics, action shots, and/or music (see copyright information below).

Q. Can I work with friends on the video?

A. Students may work alone or in teams of no more than four people.

Q. What format should my video be done in?

A. Submit 1 copy of the video in DVD format. A signed release form for every student under 18 years old must be included with the video. Be sure to tape a completed student label onto the DVD case.

Legal Requirements

Release Form: If you are under 18 years old, your parent or guardian must give MWRA permission to use your video. Each member of the group **MUST** submit a signed release form along with the video.

Copyrighted Material: You may only include clips from copyrighted commercials, movies, television shows, music, or on-line videos if you obtain copyright permission. You must verify that your video contains no copyrighted material in your signed release form.

Q. How long should my video entry be?

A. Video entries can be up to three minutes long. Videos longer than 3 minutes will not be judged.

Q. How will my video be judged?

A. MWRA staff will view all entries received and select the top ten percent to be reviewed by a judging panel which will rank the videos based on factual accuracy, creativity, originality, and persuasiveness.

MWRA SCHOOL CONTEST STUDENT LABEL

Student Label

Student's Name: _____ *Grade _____

*School: _____

*Address: _____

*City: _____ *Zip: _____

*Teacher: _____

*Teacher's email: _____

Student Label

Student's Name: _____ *Grade _____

*School: _____

*Address: _____

*City: _____ *Zip: _____

*Teacher: _____

*Teacher's email: _____

Student Label

Student's Name: _____ *Grade _____

*School: _____

*Address: _____

*City: _____ *Zip: _____

*Teacher: _____

*Teacher's email: _____

Student Label

Student's Name: _____ *Grade _____

*School: _____

*Address: _____

*City: _____ *Zip: _____

*Teacher: _____

*Teacher's email: _____

*** TEACHER MAY COMPLETE THESE BLANKS PRIOR TO COPYING**

2014/15 MWRA Contest Registration Form

To be completed by the teacher and submitted with every packet of entries. Each individual entry must have a Student Label attached to the back of the entry.

(Please print)

School Name: _____

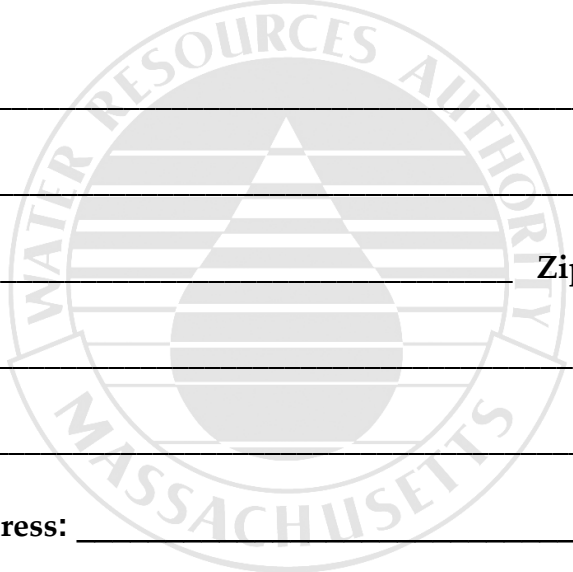
School Address: _____

City/Town: _____ Zip code: _____

Teacher: _____

School Phone: _____

Teacher's Email Address: _____



Fill in the entry information in the table below:

Entry Type	Number of Entries Included	Grade
Poster *		
Writing		
Video		

* Posters will only be returned if indicated below. If nothing is indicated, the posters will be recycled. Please return posters: YES _____ NO _____

All entries should be sent to: **MWRA School Contest**
2 Griffin Way
Chelsea, MA 02150

FOR OFFICE USE ONLY

Entries Received: _____ Entered on Database: _____
 Certificates Sent: _____

MWRA Careers from A to Z

There are hundreds of interesting careers at MWRA and in the water and wastewater fields. This list is just a start. You probably know something about many of the jobs below. You may need to research others on line, or ask a parent, teacher or another adult to describe them to you. All of these careers help to keep drinking water safe and wastewater service reliable. They also protect the environment.

Attorney

Biologist

Chemist

Database Analyst

Engineer

Financial Planner

General Construction Inspector

Heavy Equipment Operator

Instrument Technician

Junior Sanitary Engineer

Building and Grounds **K**eeper

Laboratory Supervisor

Metal Fabricator/Welder

Network Administrator

Office Manager

Plumber/**P**ipefitter

Quality Assurance Manager

Research Librarian

Safety and **S**ecurity Officer

Telecommunications Engineer

Unit Supervisor

Vehicle Maintenance Technician

Water or **W**astewater Treatment Plant Operator

Public Health **E**Xpert

Youth Educator

Ha**Z**ardous Waste Regulator





MASSACHUSETTS WATER RESOURCES AUTHORITY

VIDEO CONTEST 2014/2015

RELEASE AND AUTHORIZATION FORM

We _____ (student), and _____ (parent/guardian) hereby assign and transfer all rights and copyrights to any and all original, creative works ("Work") by the undersigned student, including any video tape and/or sound recordings which are a part of the Work to and for the use and benefit of the Massachusetts Water Resources Authority ("MWRA") in connection with the above-referenced contest. In addition, each of the undersigned hereby authorizes MWRA the unrestricted right to display, reproduce, exhibit, broadcast and/or distribute the Work ("Re-Publication") without limitation and release MWRA from any and all claims for any compensation for the Work or for any Re-Publication thereof by the student, parent(s) or other contributors to the Work.

If the Work contains copyrighted material, student and parent/guardian represent to MWRA that appropriate permission has been obtained for the use of such material and have attached evidence of that permission to this document. In consideration of the foregoing assignment of the Work and release of any claims, MWRA grants to the named student the non-exclusive, royalty-free right to use and claim the Work for the sole purpose of attributing its creation to the student and/or for the purpose of exhibiting a copy of the Work in any portfolio of the student or for any other non-commercial purpose or use thereof.

The undersigned parent hereby certifies that he/she is over the age of twenty-one (21) years and is willing to bind both parent/legal guardian and student to the foregoing terms concerning the Work.

(Signature of Student)

(Date)

(Signature of Parent/Guardian)

(Date)

Please check one of the following:

_____ No copyrighted material or content is contained in the Work.

_____ Permission to use copyrighted material or content in the Work is attached.