

GEORGIA

Model **Water Tower** Competition

An Engineering Challenge for
Middle School Students

Potable water
is the lifeblood
of any community.

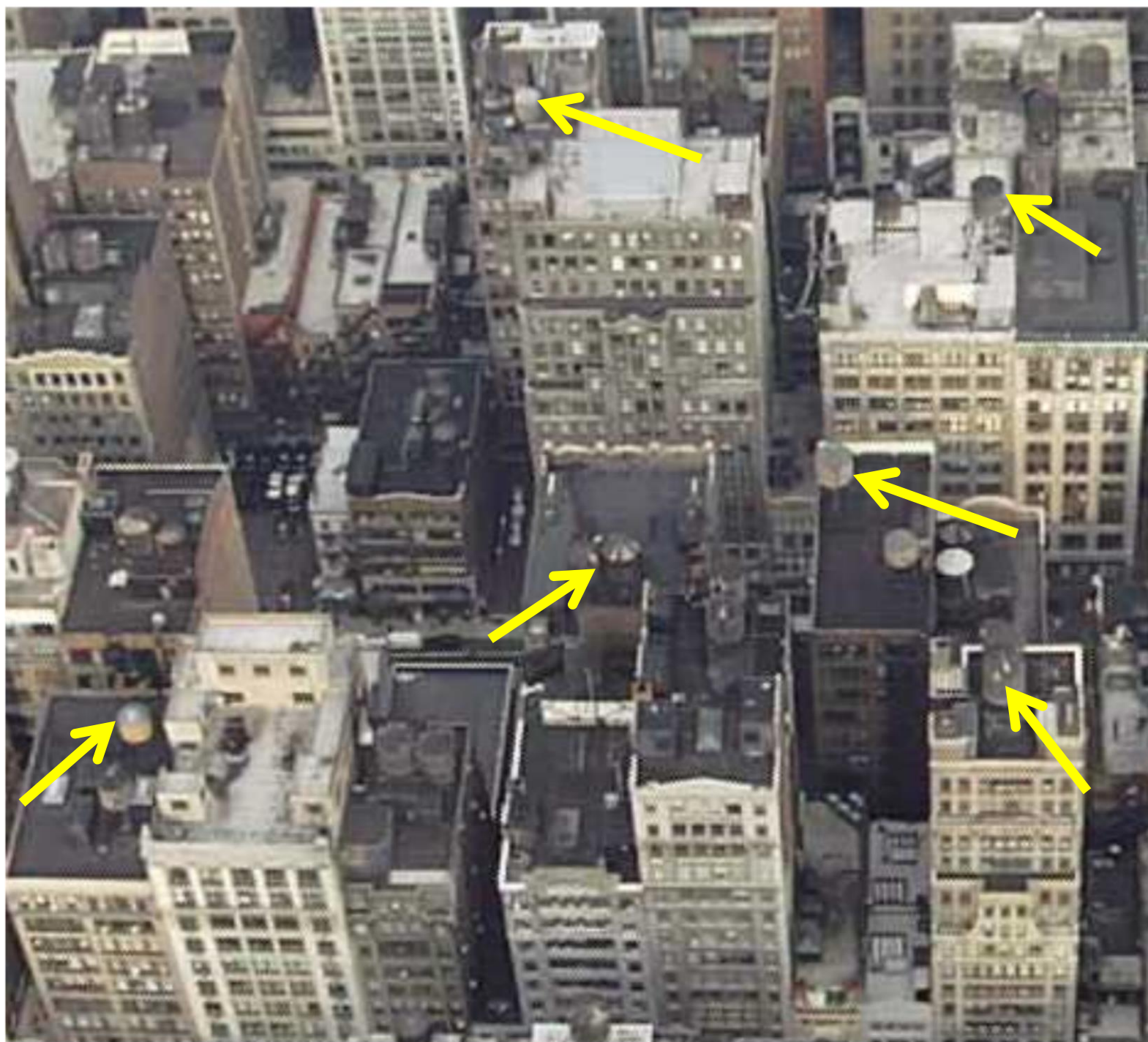


[inspire]

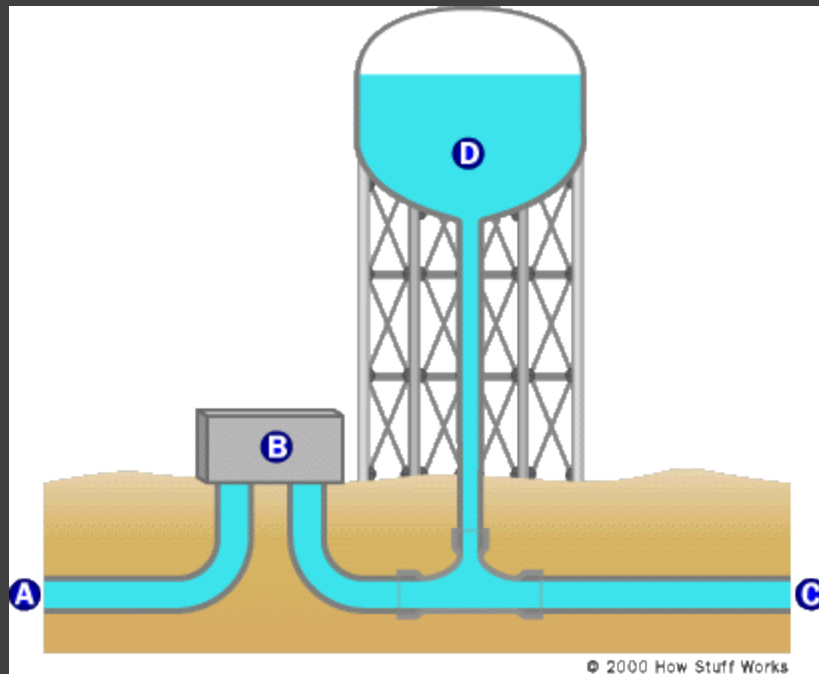




W



How does a.... **Water Tower** Work?



- | | |
|-----------------------------------|---|
| A From the treatment plant | C To primary feeders and customers |
| B Pump | D Water |

How much water do they hold?

Backyard pool can hold 20,000 gal.

Can hold 50 pools or more!

(1 million gallons!)

Pumps are nocturnal??? 😊

[Georgia water professionals]



GAWWA

1,200 professionals in the field of water supply

AWWA is an international nonprofit & educational society and the largest and oldest organization of water professionals in the world

Mission to unite the water community to protect public health and provide safe water for all

GAWP

Membership of over 4,000 water and wastewater professionals through out the State of Georgia

Dedicated to professional education, dissemination of sound technical principles and scientific information, increased public understanding, and promotion of valid public laws and programs

[3rd Annual]

Model Water Tower Competition

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GEORGIA

Water resource
engineering.
Infrastructure.
Water treatment.
Conservation.

Teamwork & Critical Thinking

Recycling & Conservation

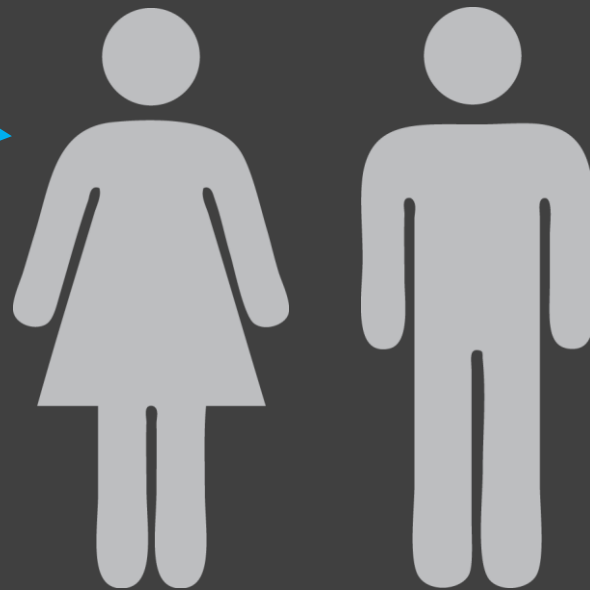
**Students
Learn**

Clean Water & Related Issues

The Water Profession

Model
**Water Tower
Competition**

Future Water Professionals



– From today's youth come tomorrow's leaders –
Let's lead some to the water profession!



[how it works]

Woodland Middle School



[October 24, 2014]

[the rules]

Open to Middle School Students

Models must be designed & built by students

Coaching & advising by an adult is encouraged

Team entries are acceptable (up to 4 students)

[model requirements]

Tank base

Support legs or pedestal must fit in a 1 ft wide x 1 ft deep space

Tank Height

1.5 ft minimum
(from base to tank bottom)

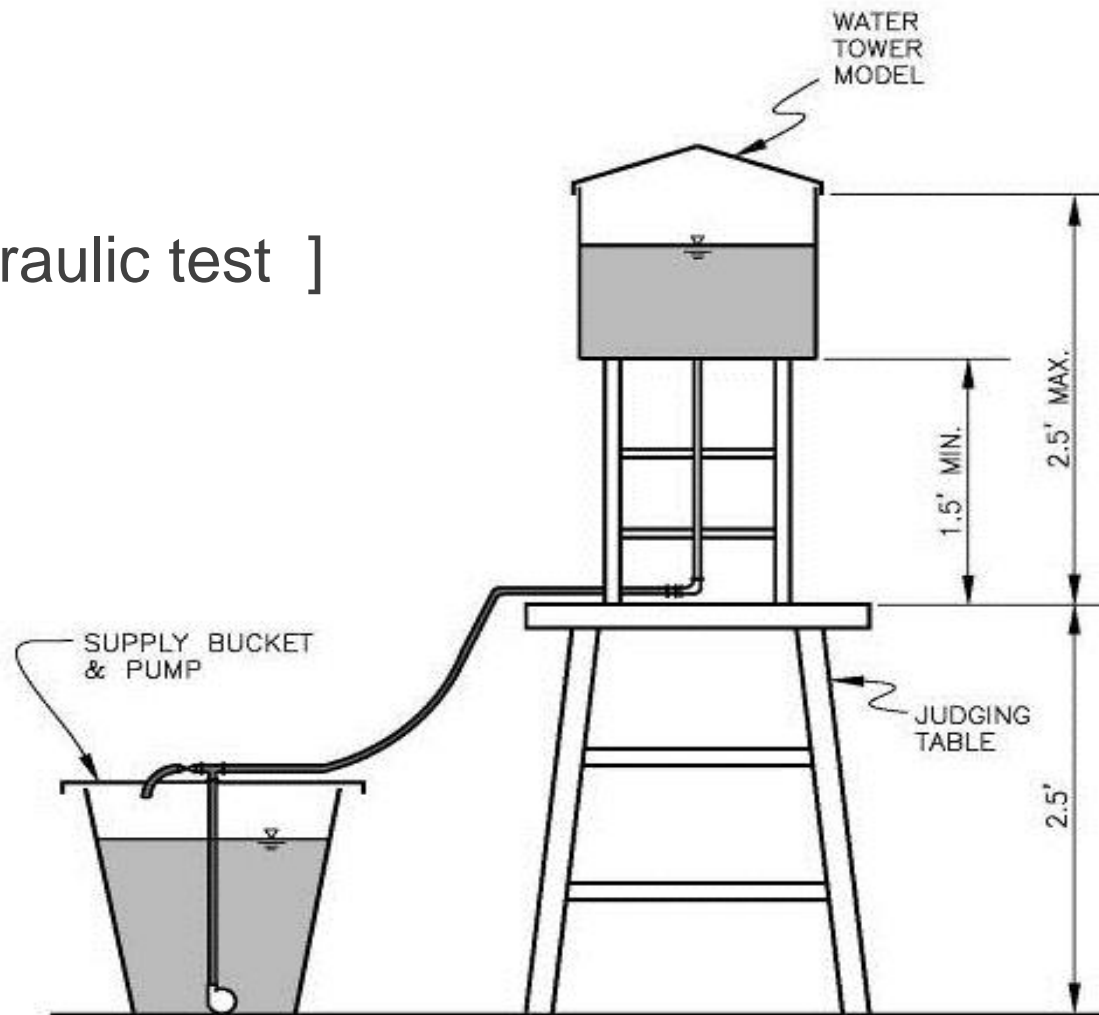
2.5 maximum
(from base to tank top)

Tank Volume

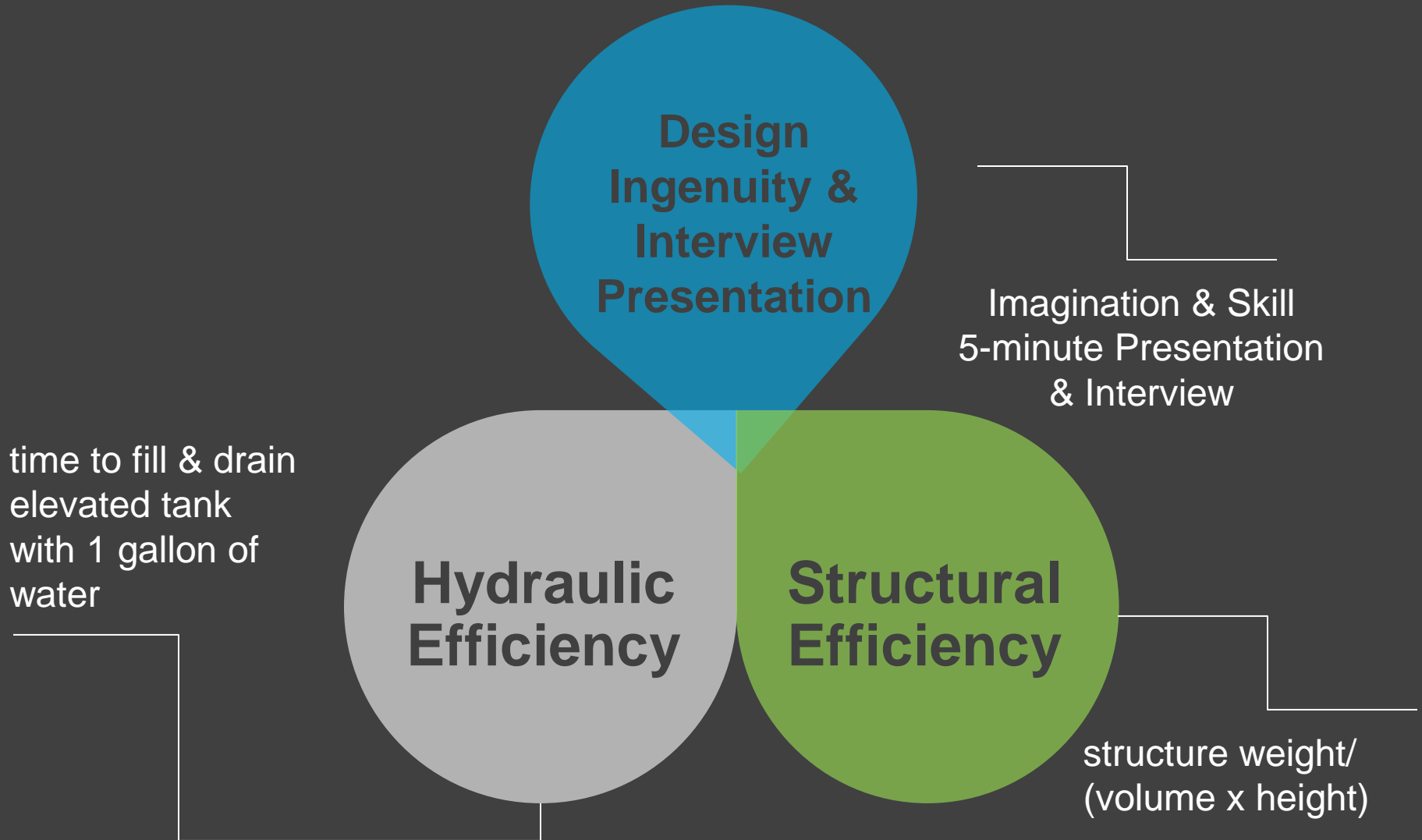
1.0 gallon minimum

2.5 gallon maximum

[hydraulic test]



[judging categories]



[awards]



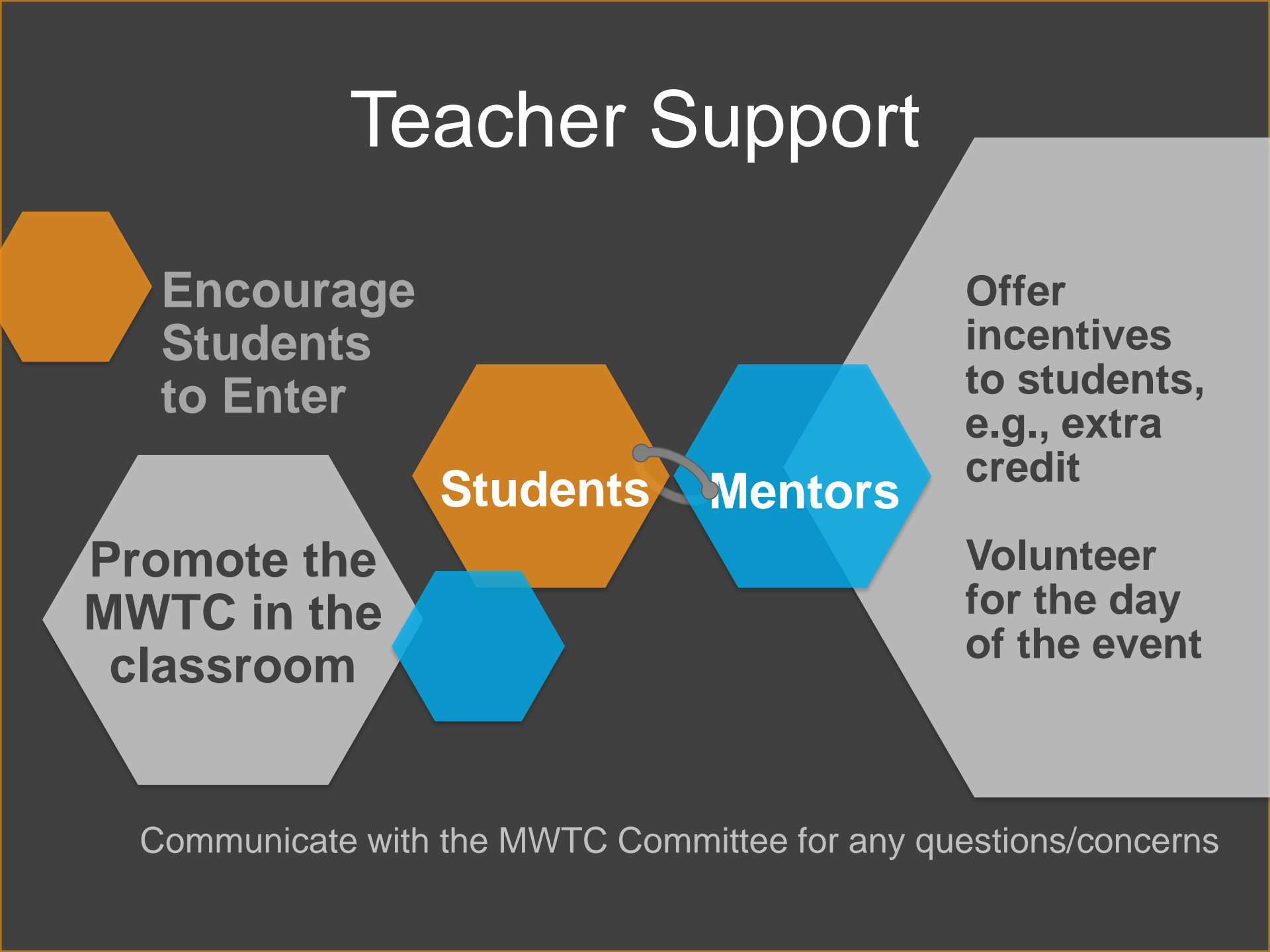
**Grand Prize
Winners**

1st Place Tower	\$300 & trophy
2nd Place Tower	\$200 & trophy
3rd Place Tower	\$100 & trophy

All Entrants

T-shirt
Certificate of Participation

Teacher Support



**Encourage
Students
to Enter**

**Promote the
MWTC in the
classroom**

Students

Mentors

**Offer
incentives
to students,
e.g., extra
credit**

**Volunteer
for the day
of the event**

Communicate with the MWTC Committee for any questions/concerns



Online Registration

www.gawwa.org

Water Tower Competition

Future



[let's begin]

Model Water Tower Photo Gallery

Winners



Model Water Tower Photo Gallery

Towers...Towers...Towers....



Model Water Tower Photo Gallery

Student Activities

