

# NBL



Energizing the World,  
Bettering People's Lives®

## Energizing Education through the Geo-Kids Program

Robert Graham and Brandy Herman

**April 2015**

# Map of Tomball

- ▶ **Northpointe School is less than 5 miles from office.**
- ▶ **350 sixth graders\community members**

# Noble Energy – Geo-Kids meeting

## Noble Core Values

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### Energizing Education through the Geo-Kids Program

***Noble Energy*** – we are driven by values and purpose –  
*Energizing the World, Bettering People’s Lives*®.

***OUR CORE VALUES*** - Our core values provide the foundation upon which trust can be built.

***Integrity*** – Working with the school and honoring our commitment

***Caring*** – Committed to nurturing a partnership with the local school to make a positive impact

***Creativity*** – Continuously inspire the youths’ education and imagination

***Wisdom*** – Joining of knowledge, insight and judgment leading to a better future

***Agility*** – Changing the kids’ learning environment by being flexible and responsive

***Excellence*** – Teaching and performing high quality lessons

***Alignment*** – Working as one while implementing core standards according to  
Education and Industry

**NBL**

# Pop Quiz

*Are you smarter than a sixth grader?*

Steps:

1. Launch web browser on mobile device
2. navigate to Kahoot.it
3. Enter PIN
4. Enter name or initials
5. Select answer color\shape

**Question #1**

**[Kahoot.it](https://kahoot.it)**

# The Noble Handshake

*The “Noble Handshake” - Sealing a deal with a handshake meant they were men of integrity and their word was their bond. This is still a critical part of Noble Energy’s culture.*

## Partner of Choice

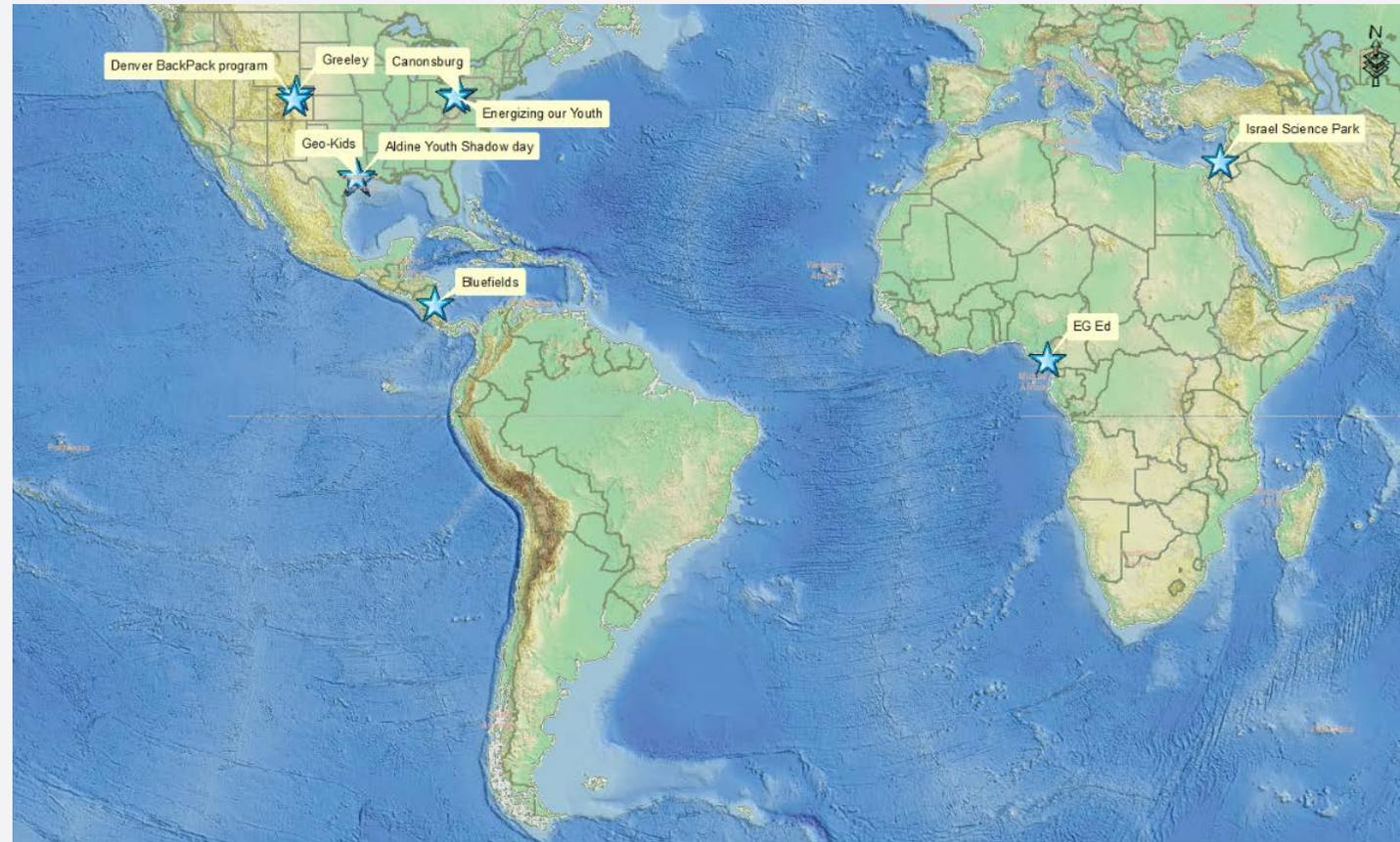
- Corporate Leadership in All Areas
  - Safety, environment, and community
  - Execute a best-in-class exploration program
  - Invest in people and technology
  - Wherever we operate, our goal is to be an active member of the community
  - We aim to earn trust through transparency, open dialogue and treating communities with respect



# Noble Energy Bettering People's Lives in Our Communities

*Noble Energy continues to build a strong local and global community involvement through a variety of company programs.*

- **Geo-Kids Program**
- **Junior Achievement**
- **United Way**
- **Habitat for Humanity**
- **Medical Bridges**



# Noble Energy Bettering People's Lives in Education Throughout Different Countries we are active in

## ► Noble Energy Sponsors Teacher Workshop in Nicaragua

- ▲ July 14-18, Noble Energy sponsored a reading and writing workshop in El Bluff, RAAS for Virgen del Carmen and La Escuelita schools, the only two elementary schools on the island. Sixteen professors and a representative from the Ministry of Education participated in the 40-hour workshop. Carried out in alliance with the American Chamber of Commerce, the workshop strengthened the educational system in El Bluff by reinforcing teachers' reading and writing skills. Participants were grateful to Noble Energy for the opportunity.



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**Question #2**

**[Kahoot.it](https://kahoot.it)**

# Noble Energy Bettering People's Lives in Education Throughout Different Countries we are active in

## ► Israeli Children Visit Noble Energy-Sponsored Science Park and MadaTech Museum

- ▲ Noble Energy initiated a much-needed day of rest and recuperation for children in Israel's southern region – an area recently affected by hundreds of rockets fired from the Gaza Strip into Israel. 400 children in the Youth Futures program from Ofakim, Sdot Negev and Beer Sheva enjoyed a fun day at MadaTech, Israel's National Museum of Science, Technology and Space in Haifa. The children, who are spending much of their summer vacation in bomb shelters, enjoyed various interactive experiences in the museum, a tour of the Noble Energy Science Park and pizza for lunch. Noble Energy employees and the Youth Futures instructors assisted the MadaTech team.



# Noble Energy Bettering People's Lives in Education Throughout Different Countries we are active in

## ► EHSR Conducts Swimming and Water Safety Class for Children in EG

- ▲ July 24-25 the EHSR department hosted a swimming and water safety class for children of Noble Energy employees in Equatorial Guinea.
- ▲ Instructors from McMillan Offshore Survival Training taught children water survival techniques including floating, breath holding under water and basic swimming techniques. The swimming class promotes safety outside of work – a focal point of the NO HARM culture at Noble Energy.



# Noble Energy's Geo-Kids Program

*2013 to present*

- ▶ The Geoscience Systems Team GIS outreach to local grade school to build a community through the study of geography. We encouraged sixth grade social science classes to learn more about the physical world around them and how that passion can become a career.
- ▶ Inspiring young geographers to think spatially.



# Pop Quiz

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Steps:

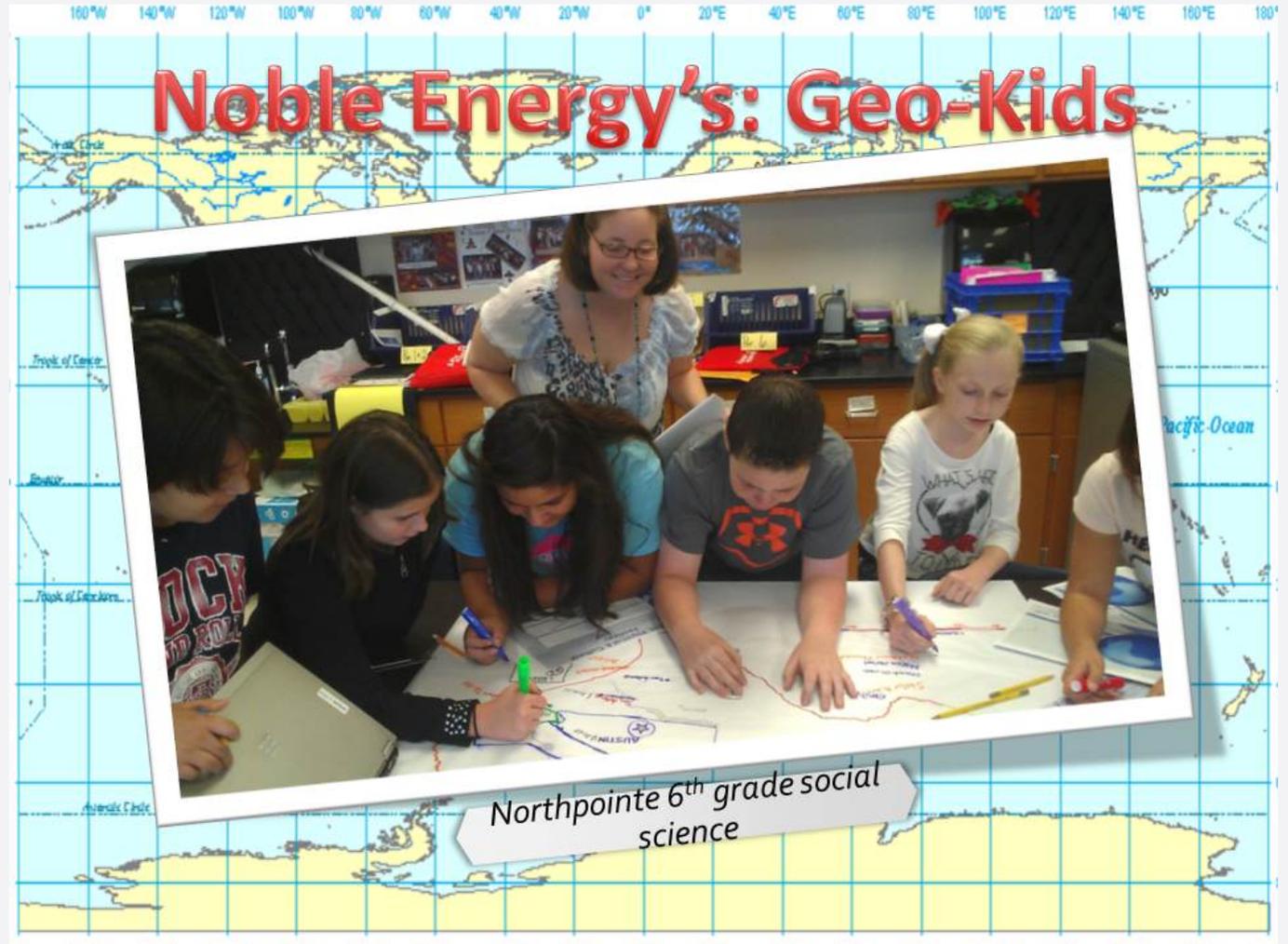
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**Question #3**

**[Kahoot.it](https://kahoot.it)**

# Subjects

- ▶ Mapping your State
- ▶ Halloween Routes
- ▶ Road Trip
- ▶ Plate Tectonics
- ▶ Rock Cycle
- ▶ Datums
- ▶ Key Map
- ▶ Geo Caching
- ▶ Games



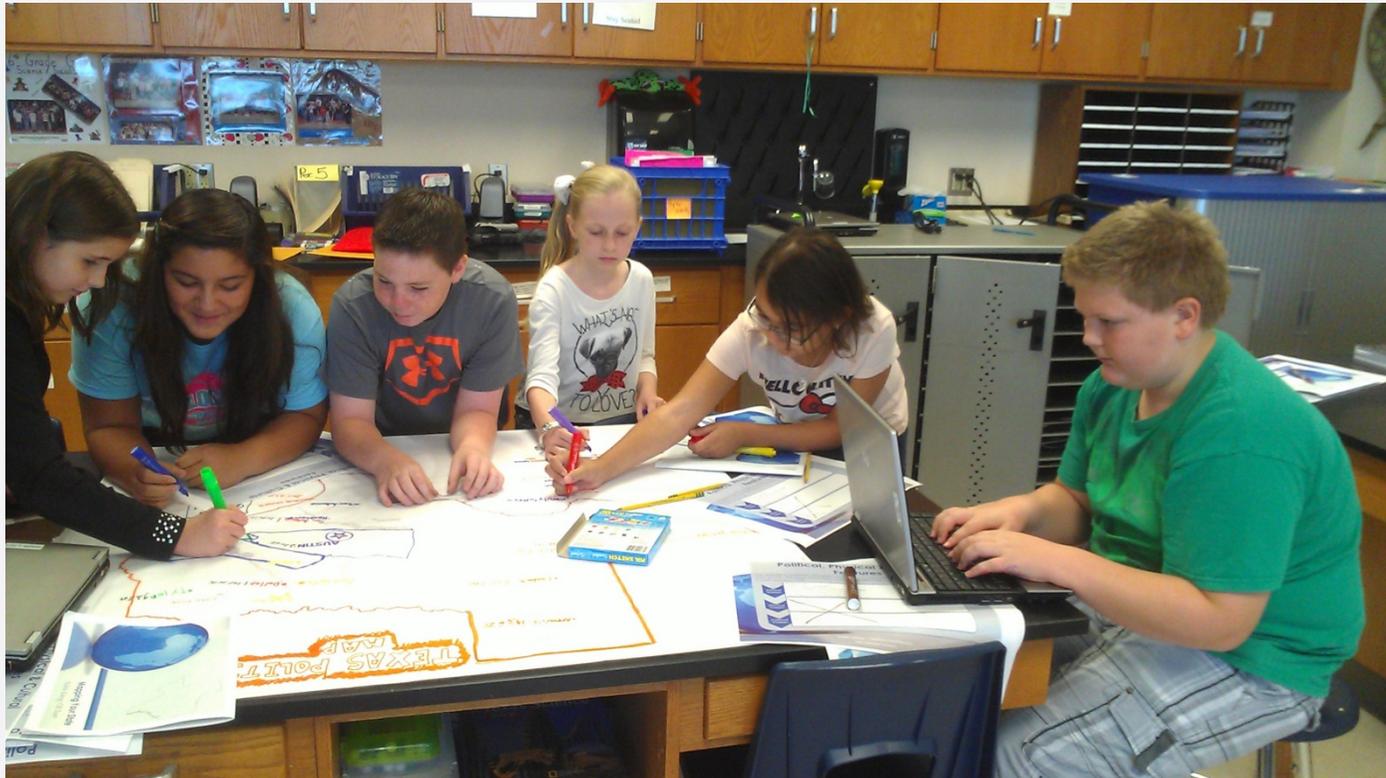
# What Problems were solved using GIS

- ▶ **The team had many challenges when developing the program**
  - ▲ How do we improve their understanding of the world around them i.e. even down to the neighborhood level
  - ▲ Presenting the material efficiently and accurately
  - ▲ How do we present the material that they will understand
  - ▲ How do we get the kids excited about geography and/or geology
  - ▲ What platforms would we use that the kids would gain knowledge from



# What Advantages did GIS give you

- ▶ GIS gave the team the ability to manage the data accurately
- ▶ Display our data with ease that we could share with the class
- ▶ Knowledge of the area we were teaching about



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**Question #4**

**[Kahoot.it](https://kahoot.it)**

# What type of Geospatial analysis did we use

- ▶ **The GIS team used coordinate projections, GPS technology and geocaching exercises**
- ▶ **We used aerial photography and GPS from our phones for our geocaching exercise**
- ▶ **We used GIS to help the students become familiar with their neighborhood and even their state**



# What are your findings and/or results

## ► We presented the teaching staff and students with an online survey

- ▲ The students felt they had a better understanding of geography and a better understanding the mapping concepts
- ▲ The teacher stated that their test scores and ability to making maps improved from the previous years classes

SurveyMonkey Analyze - GEO-Kids Evaluation Page 1 of 3

SurveyMonkey Upgrade GEO-Kids + Create Survey

Home My Surveys Survey Services Plans & Pricing

GEO-Kids Evaluation Design Survey Collect Responses Analyze Results

CURRENT VIEW ?  
+ FILTER + COMPARE + SHOW  
No rules applied ?  
Rules allow you to FILTER, COMPARE and SHOW results to see trends and patterns. Learn more >

SAVED VIEWS (1) ?  
Original View (No rules applied)  
+ Save as...

EXPORTS ?  
SHARED DATA ?  
No shared data  
Sharing allows you to share your survey results with others. You can share all data, a saved view, or a single question summary. Learn more >  
Share All

RESPONDENTS: 43 of 43 Export All Share All

Question Summaries Data Trends Individual Responses

Respondent #41

#41 COMPLETE  
Collector: Web Link (Web Link)  
Started: Thursday, May 29, 2014 9:49:26 AM  
Last Modified: Thursday, May 29, 2014 9:51:38 AM  
Time Spent: 00:02:12  
IP Address: 50.202.43.1 Edit Delete Export

PAGE 1

Q1: Overall did you enjoy the experiences and lessons provided by the Noble Energy volunteers?  
(no label) Excellent

Q2: How well do you feel the Noble Energy volunteers presented the lessons?  
(no label) Very Good

Q3: How helpful were the lessons to your Science and/or Social Study classes?  
(no label) Excellent

https://www.surveymonkey.com/analyze/browse/jiUSjWnj1FP1hCQHGeVtd\_2BCv\_2FzvT\_2FU29\_2FWUHKVhQCik\_3D 5/30/2014

011

Page 2 of 3

Q4: In your opinion were the materials (large maps, videos, powerpoint presentations, etc.) used in the lessons helpful in the learning process?

(no label) Excellent

Q5: Do you feel that this project would benefit future 6th grade classes?

(no label) Yes

Q6: Which lesson(s) were your favorite(s)?

Jeopardy, Geocaching, and Getting to Theme Park

Q7: Which lesson(s) were your least favorite?

Plate Tectonics

Q8: What would you change about the lessons taught by the Noble GIS team?

nothing

Q9: Do you have any other comments?

no

# How is this project useful for other companies

- ▶ **The Geo-kids project could help companies who want to reach out to the community and help the youth become more aware of opportunities that exist**
- ▶ **It's great to get the students' involved with why they are taught the items they are and what to do with it**
- ▶ **This project can be an eye-opening experience for it's employees. The GIS team developed a better understanding of team work, community involvement and developed better communicating skills.**

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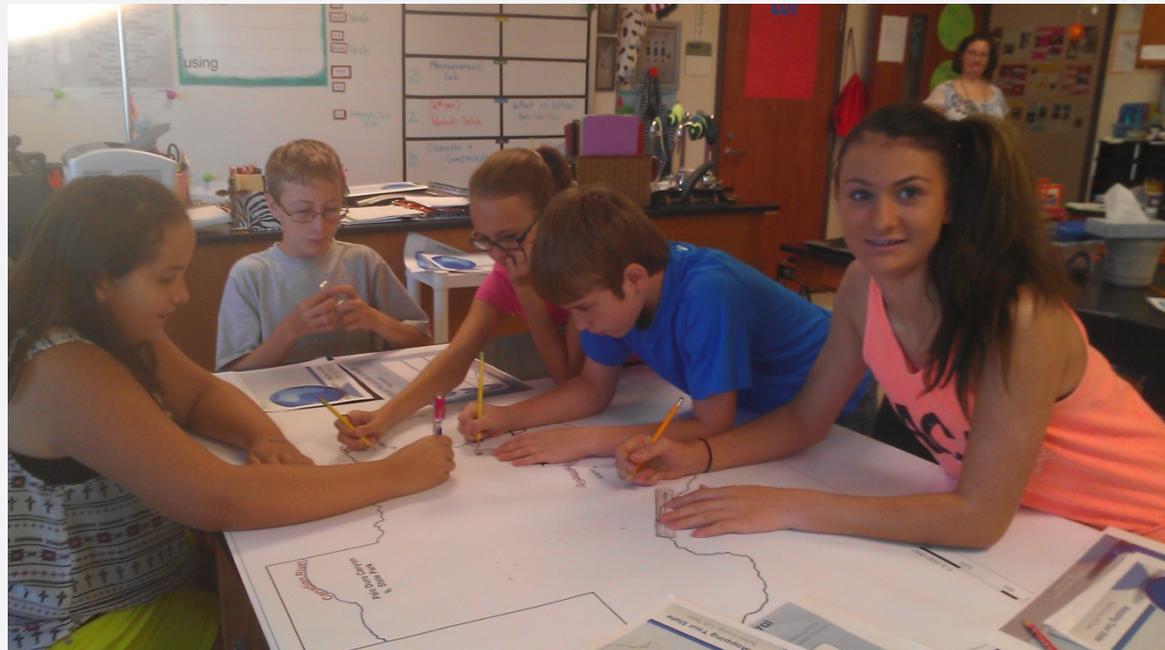
**Question #5**

**[Kahoot.it](https://kahoot.it)**

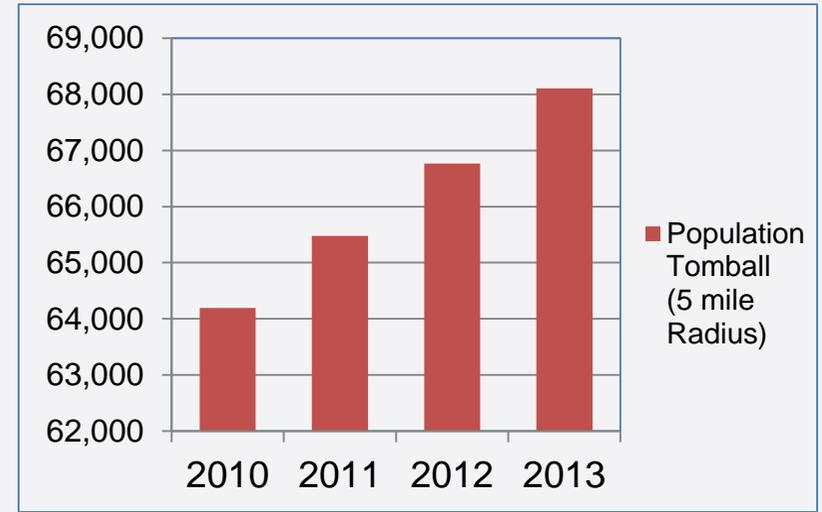
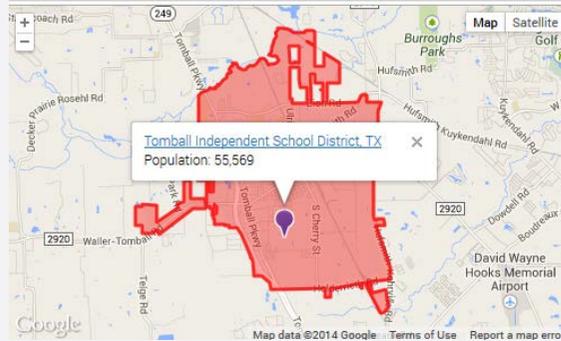
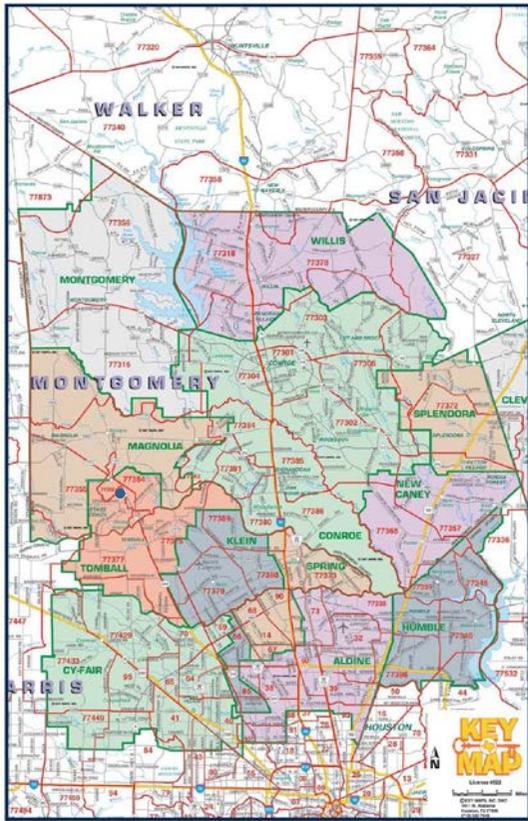
# GEO-Kids meeting Noble's purpose

*"Energizing the World, Bettering People's Lives."*

- ▶ The Geo-kids program met our company's purpose
- ▶ We reached out to our community and engaged 2 classes of 6<sup>th</sup> graders
- ▶ We taught them about our industry
- ▶ We got students excited about geology/geography
- ▶ We taught students to not only rely on electronic devices
- ▶ We showed them how to read/draw/make maps



# Tomball ISD Statistics



Tomball ISD is growing by leaps and bounds!

Several schools are beyond full. This next school year, 2015-2016, we are opening a new intermediate and 2 new elementary schools. Then in 2016-2017 we are opening a new junior high with a plan in the works for another new junior high soon after that.

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**Question #4**

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# Conclusions

**The Geo-Kids Program was created on the ideals of Noble Energy’s purpose. The GIS team is committed to “Energizing the World, Bettering People’s Lives.” The team looks forward to teaching the new school year with new creativity, innovation, excellence and wisdom. Through the use of ESRI products and our GIS skills, the team will provide a one of a kind learning experience. We would like to thank Noble’s management for the opportunity to move forward with this program and we are very grateful for Northpointe Intermediate School allowing us to teach collaboratively with their teachers.**



# Starter kit

- ▶ **Introduction letter**
- ▶ **Lesson plan & slides**
- ▶ **Survey**
- ▶ **Advice blog on [PugOnline.org](http://PugOnline.org)**

# Appreciation

## Student letters

- ▶ The teachers requested that the kids write notes to management.

“My grades have gone from 70’s to 100’s” -Dominique Wallace

“They helped us read maps, find things on maps, and do our own maps.” – Madison Hertwig

“..people who care so much about our education” – Reese Rosner

“I absolutely love this Noble Energy program it has been an amazing experience...” -Haala

# Are you smarter than a sixth grader?

## *Geo-Kids program*

### Robert Graham

- ▶ PUG 2015 : Regional liaison
- ▶ Twitter @graharg
- ▶ LinkedIn: 
- ▶ Email: [Robert.Graham@nblenergy.com](mailto:Robert.Graham@nblenergy.com)
- ▶ Foursquare\Swarm <https://foursquare.com/graharg>
- ▶ ArtCar 2015 entry: #27 
- ▶ UnTappd: <https://untappd.com/user/graharg>

### Brandy Herman

- ▶ 18 year Veteran Teacher
- ▶ Science Department Leader

If I can answer any questions, please contact me.

- ▶ Email: [brandyherman@tomballisd.net](mailto:brandyherman@tomballisd.net)
- ▶ School: Northpointe Intermediate  
281-357-3020 Extension 1469

# ArcGIS Online map in slide

## *Tomball Parkway*

- ▶ Number of citations along Tomball Parkway TX-249

