



2018 UT_ GME_TEACHER_Needs_Assessment

2018 UT_ GME Teacher Needs Assessment

As you take this survey, please be very truthful as to needs you have. We want to provide you with a professional development experience that will not only be worth your time but will provide you with tools to excite your students and engage them in STEM activities and the skills that they will need to succeed in the 21st century.

1. What is the name of your school?

2. What is your name? (mandatory)

3. Which subject/s do you teach?

- Biology
- Chemistry
- Computer science
- Earth science
- English Language Arts
- Mathematics
- Physical science
- Physics
- Social science
- Other (please specify)

4. What grade level do you teach?

- K-2
- 3-5
- 6-8
- 9-12

5. How many years of teaching experience do you have?

- 0-2
- 3-5
- 6-10
- 11-15
- 16-20
- >20

6. How long is a typical class you teach?

- < 20 min
- 20-40 min
- 40-60 min
- >60in

7. What are your standard teaching practices?

	Never	Rarely	Sometimes	Often	Always
Demonstration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discussion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Field studies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Group work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hands on and inquiry based	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lecture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Media	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Online activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

8. This school year, how much emphasis did you put or are you planning to put on:

	No emphasis	Little emphasis	Some emphasis	Quite a bit of emphasis	A great deal of emphasis
Data analysis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fieldwork data collection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lab data collection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outdoor experimental activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Student lead projects and/ or activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Web materials use in the classroom	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

9. Do students in your classroom have access to computers?

- Yes
- No

If you answered 'Yes', how much computer time do students have in an average week?

10. Which of the following data sets would you like to have for your science teaching? (Data sets include organized learning materials and visualizations). Please select all that apply.

- Hydrology
- pH
- Salinity
- Alkalinity

- Conductivity
- Dissolved Oxygen
- Nutrients (nitrate and phosphate)
- Air temperature
- Water temperature
- Ocean color
- Turbidity/transparency
- Atmosphere**
- Air Temperature
- Surface Temperature
- Clouds
- Precipitation
- Barometric Pressure
- Relative humidity
- Aerosols
- Ozone
- Pedosphere / lithosphere**
- Soil Temperature
- Soil Moisture
- Soil Characteristics (particle size, horizons)
- Infiltration
- Biosphere**
- Green up/down
- Budburst
- Phenological garden
- Land Cover
- Macroinvertebrates
- Mosquito

11. Have you attended any professional development to support your science teaching?

- Yes
- No

If yes, please provide more details (which training, number of hours).

12. What type of professional development do you feel you need to improve/evolve your science instruction and facilitate your students in the following? Check all that apply.

- Asking questions and defining problems
- Planning and carrying out investigations
- Gathering data from the field
- Downloading data from databases and websites
- Analyzing, and visualizing data
- Interpreting data
- Constructing explanations and designing solutions
- Obtaining and evaluating information
- Communicating information
- Setting up groups for group work
- Engaging in argument from evidence
- Other (please specify)

13. Have you included hands-on or outdoor exploration activities in your teaching during the past year?

- Yes
- No

If yes, please provide an example.

14. Would you be interested in incorporating more outdoor / field activities in your teaching?

Yes

No

15. Have you noticed an improvement in students' attitudes and achievements in science courses with the incorporation of hands-on activities?

Yes

No

If yes, please describe.

16. What type of support would help you incorporate more hands-on and outdoors education in your classroom?

Professional training

Dedicated learning materials

Specific protocols for learning activities

Facilitating inquiry based activities

Mentoring from experts

Other (please specify)