

Session Descriptions:

Astronomy/Rockets

Students construct balloon-powered rockets to launch the greatest payload. Students will receive identical parts with which to construct their rockets.

Electricity – Paper Circuit Exploration

Using paper, copper tape, batteries, LED's, and more students will explore circuits and switches. After understanding the basics, students will be able to use the concepts they have learned to create their own project idea.

Biology – Animal Adaptations

Students will create their own species from a specific Biome of their choice. Adaptations of their species will include any behavior or physical, characteristics of an animal that help it to survive in their environment.

Physics – Great American Balloon Car Race

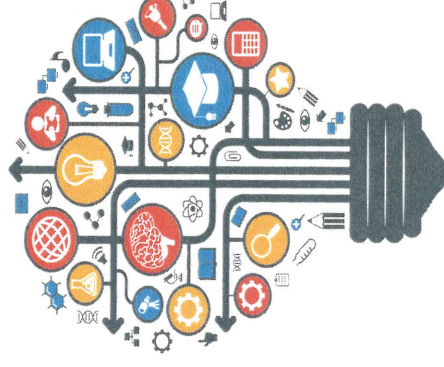
Each student will design, build, and race lightweight "gas" powered vehicles. The gas source is the air in the balloons. The understanding of these activities will allow the student to look into and learn simple machines, motion, force, friction, energy transfer, mechanical energy, and problem solving.

Ecology/Space – Water Filtration Challenge

Students are challenged to design and build a water filtration device using commonly available materials. Students will build, test, and measure the performance of the filtration device, analyze the data collected, and use the information to work toward an improved filtration design.

Earth Science – Lava Layering: Making and Mapping a Volcano

Students will construct a model of a volcano and produce lava flows. They will then observe, draw, record, and interpret the history of a volcano produced by other students



**TOWNSEND JR. HIGH
SCHOOL**

GATE

SCIENCE ACADEMY





Session Times:

Each date will offer two session times,

1st session – 2:00 – 3:00 p.m.

2nd session – 3:30 – 4:30 p.m.

Signup for your Session Time

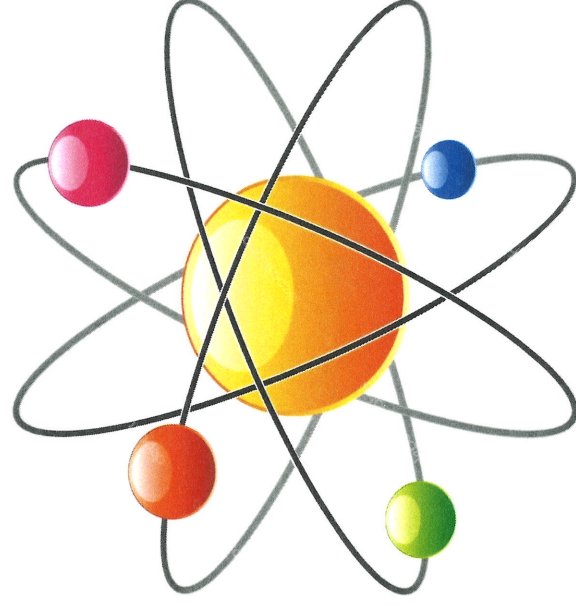
Please pick one session per date for each month. The student will only be permitted to attend one session per month.

We would like to invite you to be a part of the Townsend GATE Science Academy. We will be offering six different classes for you to attend, one a month beginning in November. These classes are geared to the Jr. High level. Come join in the fun and let's begin exploring the Sciences!



Hi, my name is Terrie Beck and my passion is teaching about the many different aspects of science.

I hold a Masters Degree in Molecular Biology and a Bachelor Degree in General Biology. I have taught science from elementary age up to the college level. I started TNT Educational Adventures over 9 years ago to inspire young minds to be enthusiastic about exploring science and how it applies to our world today.



Session Dates:

November 2020:

Tuesday, 11/17 or Thursday, 11/19

December 2020:

Tuesday, 12/15 or Thursday, 12/17

January 2021:

Tuesday, 1/12 or Thursday 1/14

February 2021:

Tuesday 2/09 or Thursday 2/11

March 2021:

Tuesday 3/16 or Thursday 3/18

April 2021:

Tuesday 4/13 or Thursday 4/15