

Science

Ecosystem Mobile

Students designed and created mobiles that showed the transfer of energy and trophic levels within specific ecosystems. Ecosystems included the tundra and savannah. *STEMScopes* supplied the ecosystem and students created “suns” and mobiles from various materials.

This and other design challenges, connected to the NJSLS and NGSS, are available for your classes. Please contact your school’s STEM Specialist.

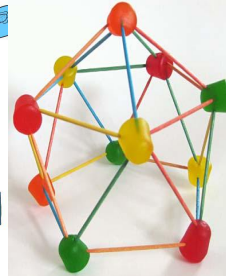
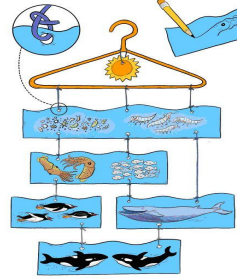


Step Into

STEM



Science • Technology • Engineering • Math



Mathematics

Gumdrop Geometry

Students explored lateral faces and bases by building 3D geometric shapes using toothpicks and gumdrops. This lesson can include surface area and volume activities as well.

Middle School STEM Specialists

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iD Tech Camps and Academies

Day and overnight STEM camps are available this summer for middle school students. Summer courses available to students include coding, game design, robotics and 3D modeling/printing

<https://www.idtech.com/>

Year End/ Beginning of the Year Team Building Ideas

The following links provide team building challenges with minimal supplies and preparation:

- Pom Pom Cannon- <http://starfisheducation.com/the-brown-bag-stem-challenge-pom-pom-cannon/>
- Building Windmills- <http://starfisheducation.com/the-brown-bag-stem-challenge-building-windmills/>
- Lunar Landers- <http://starfisheducation.com/the-brown-bag-stem-challenge-lunar-landers/>

STEM Survey

The STEM Specialists have developed a survey for Math and Science teachers to gather valuable input to the current program. Please try to take a few minutes to complete the survey so we can better implement STEM at the middle school level.



Engineering Resources Spotlight

[Six Characteristics of a Great STEM Lesson](#)

[STEM Lessons from Space](#)

[19 Math STEM Activities for Middle School](#)

