

Solar Sails: The Future of Space Travel

TeachEngineering

Experience






















Design and construct model solar sails made of aluminum foil to move cardboard tube satellites through space on a string.

Suggested Learning

Time 1 : 30 Cost 0.00

PreRequisites

Requirements

| Skills | Focus | Level | Standard | Points |
|---|--|---|----------------------|----------|
|  Applied Science |  |  | NGSS | 3 |
|  Researching |  |  | | 1 |
|  Observation |  |  | | 1 |
|  Written Communication |  |  | CC | 1 |
|  Mathematics |  |  | CC | 1 |
|  Problem Solving |  |  | | 1 |
|  Teamwork |  |  | | 1 |
| Total Skill Points | | | | 9 |

Knowledge Gain

State the purpose and use of solar sails for satellite propulsion. State that solar sails transfer wave energy from light into mechanical energy for satellite motion.

Resource Link

https://www.teachengineering.org/activities/view/cub_space8_lesson01_activity2