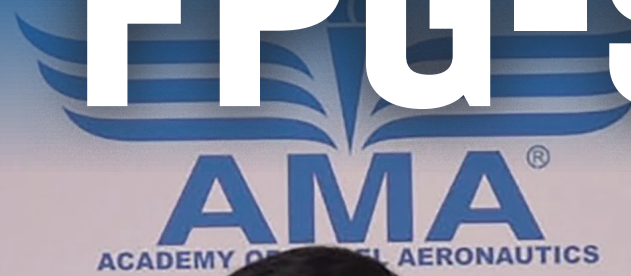


QUICK PROJECT FPG-9



AUTHORIZED AMA
STE(A)M PROGRAM



AN OFFICIAL COMPETITION OF THE ACADEMY OF
MODEL AERONAUTICS EDUCATION DEPARTMENT

MODELAIRORAFT.ORG | AMAFLIGHTSCHOOL.ORG

SUPPLIES

Foam Plate (*feel free to be creative! Try a paper plate or cardstock paper!*)

Penny

Tape

Scissors

Marker

LEARN MORE!

For in-depth curriculum and worksheets visit <https://www.AMAFlightSchool.org/> **ArconicSteam** and download the aerolab materials!

WATCH VIDEOS

Search YouTube for FPG-9 videos, there is a lot of great content!

CHALLENGE

Furthest flight? Longest duration flight? Number of times in a minute to fly through a hoop? Get creative!

STANDARDS

4.PS.1 Investigate transportation systems and devices that operate on or in land, water, air and space and recognize the forces (lift, drag, friction, thrust and gravity) that affect their motion.

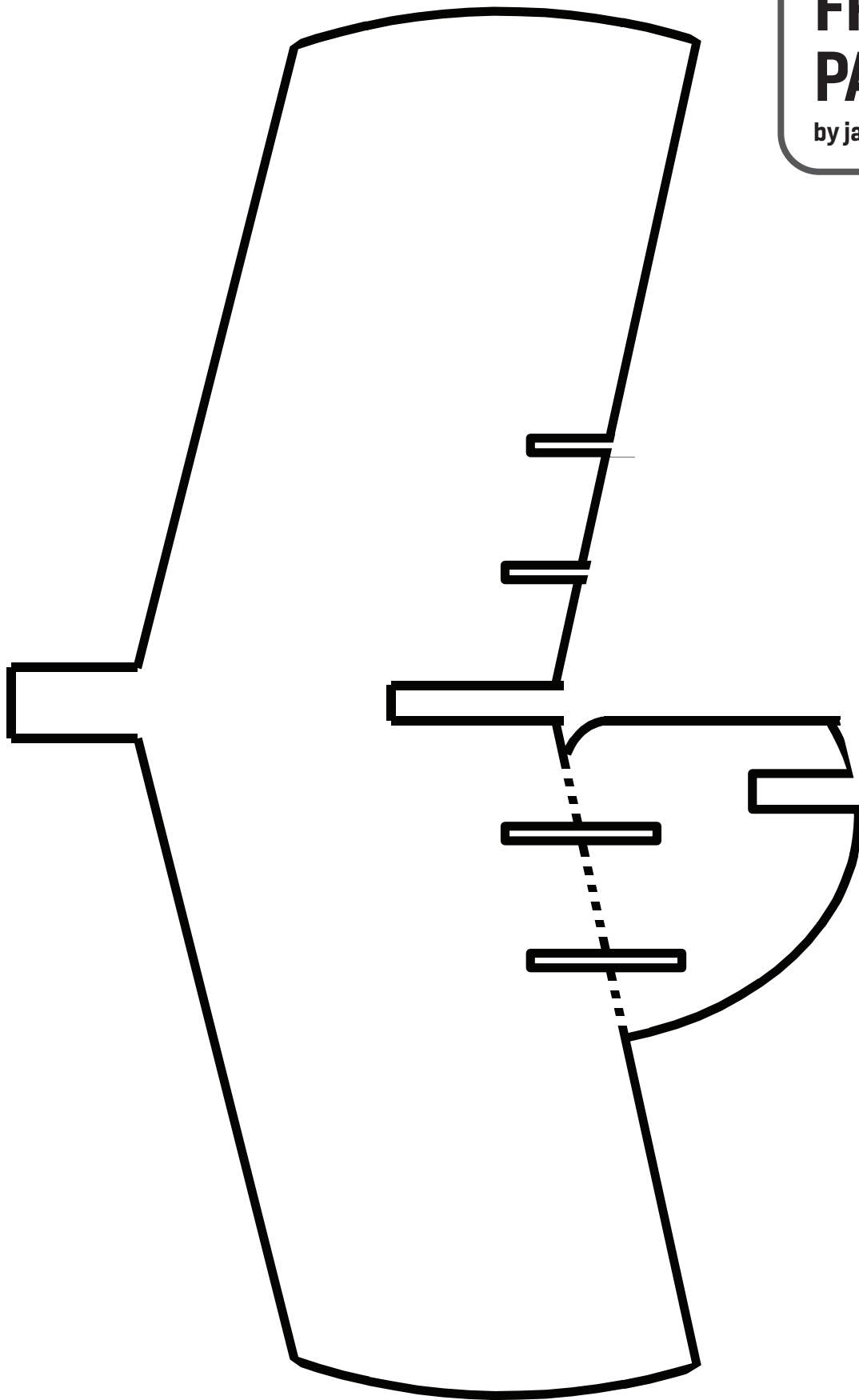
4.PS.4 Describe and investigate the different ways in which energy can be generated and/or converted from one form of energy to another form of energy.

ACTIVITY

1. Have the students cut out the FPG-9 pieces. Note the notches indicated on the wings of the main piece (body) and the smaller piece (vertical stabilizer). Make sure students snip these.
2. Instruct the students to write their names on the larger of the two pieces using the permanent marker.
3. Hand out the pennies. Instruct the students to place the penny on the nose at the front of the body and fold it over, creating a little pocket. Use the tape to secure the penny.
4. Instruct the students to slide the vertical stabilizer (smaller piece) into the main piece via the two largest notches.
5. Using the tape to create an "L" shape, secure the vertical stabilizer to the body of the aircraft.
6. To fly the FPG-9, pinch the vertical stabilizer underneath the aircraft and gently toss it forward from shoulder height.

FPG-9 PATTERN

by Jack Reynolds





HISTORY OF THE ACADEMY OF MODEL AERONAUTICS AND THE NATIONAL MODEL AVIATION MUSEUM

The idea for the AMA began in 1935 (perhaps even before that) at the National Championships in Detroit, Michigan. Leaders and contestants were interested in a self-governing body of aeromodeling experts, the thought being that there should be expert guidance of, for, and by model builders. Modelers wanted a single voice to develop national rules for aeromodeling contests, as well as one voice to speak to the government.

First known as the American Academy for Model Aeronautics (AAMA), the organization dropped 'American' from its official title and changed "for" with "of" within a few years.



WE ARE

... the AMA is world's largest model aviation association, representing a membership of more than 195,000 from every walk of life, income level and age group.

... a self-supporting, non-profit organization whose purpose is to promote development of model aviation as a recognized sport and worthwhile recreation activity.

... open to anyone interested in model aviation.

... the official national body for model aviation in the United States. AMA sanctions more than 2,000 model competitions throughout the country each year, and certifies official model flying records on a national and international level.

... the organizer of the annual National Aeromodeling Championships, the world's largest model airplane competition.

... the chartering organization for more than 2,500 model airplane clubs across the country. AMA offers its chartered clubs official contest sanction, insurance, and assistance in getting and keeping flying sites.

... the voice of its membership, providing liaison with the Federal Aviation Administration, the Federal Communications Commission, and other government agencies through our national headquarters in Muncie, Indiana. AMA also works with local governments, zoning boards, and parks departments to promote the interests of local chartered clubs.

... an associate member of the National Aeronautic Association. Through NAA, AMA is recognized by the Fédération Aéronautique Internationale (FAI), the world governing body of all aviation activity, as the only organization which may direct U.S. participation in international aeromodeling activities.