

THANKSGIVING STEM CHALLENGES

TURKEY TOWER

You'll need

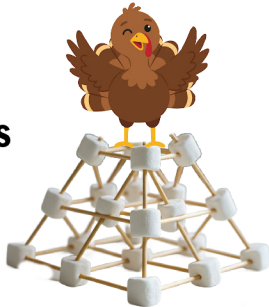
Toothpicks

Mini marshmallows

Paper / card

Scissors

Small Turkey toy



Design and build a tower with toothpicks and mini marshmallows.

Place a paper or card platform on the top and test to see if the tower can hold a small toy.

Think about the shapes you use. Triangles are stronger than squares.

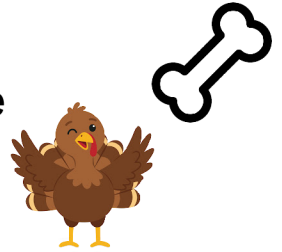
BENDY BONES

You'll need

Cooked turkey bone

Vinegar

Container



Place a cooked turkey bone in a container and cover with vinegar.

After a few days the turkey bone will be bendy!

Vinegar is an acid. It dissolves the calcium in the bone making it so weak you can bend it!

CRANBERRY BOATS!

You'll need

Cranberries

Toothpicks

Bowl or glass

Water

Gummy bears



Cranberries float because they have lots of air pockets inside.

Use cranberries and toothpicks to build a boat stable enough to hold a gummy bear.

PUMPKIN PIE PARACHUTE!

You'll need

String

Plastic bag

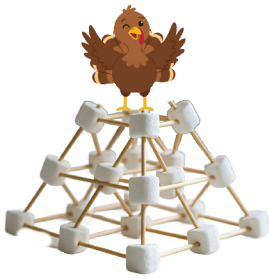
Scissors

Tape



Design and build a parachute to slow the fall of a mini pumpkin pie.





TURKEY TOWER



Materials

Toothpicks

☐

Spaghetti

☐

Gummy sweets

☐

Marshmallows

☐

Turkey Tower Design



My tower can stand without support

YES

☐

NO

☐

Things I would change



Things that worked well



CRANBERRY BOATS



Materials

Cranberries

☐

Toothpicks

☐

Water

☐

Container

☐

Gummy Bears

☐

Cranberry Boat Design



My cranberry boat floats

YES

☐

NO

☐

Things I would change



Things that worked well

PUMPKIN PARACHUTE



Materials

String

☐

Tape

☐

Scissors

☐

Plastic bag

☐

Mini pumpkin
/ small toy

☐

Pumpkin Parachute Design

Main forces acting on a parachute

Air Resistance



Gravity



Things I would change

Things that worked well

