

Biological sciences

Project
1

Pet cushion

TASK:

Design and create an indoor pet cushion for a small dog or cat.

CRITERIA:

- It must be the size of an A3 piece of paper.
- It must be able to be moved around without breaking.
- It must be warm and very soft.

SUGGESTED MATERIALS:

- 1 plastic weaving needle
- thread or wool
- fabric
- cushion filling



Biological sciences

Project 1

Pet cushion

- Find out about different types of pet cushions.
- Plan and draw a diagram of your pet cushion.
- Collect the materials you will need, including a plastic weaving needle, thread or wool, fabric and filling for the cushion.
- Create your pet cushion to look like your plan.
- Check that your pet cushion meets the criteria.
- Create a video explaining how you made your pet cushion and how this cushion will help your pet meet its need for sleep.



Rope bridge

TASK:

Design and create a model of a rope bridge that hangs between two cliffs.

CRITERIA:

- It must hang between 2 desks that are 10 craft sticks apart.
- It must be able to hold the weight of 10 toy farm animals.
- It must be made using only craft sticks and string.

SUGGESTED MATERIALS:

- craft sticks
- string
- 10 toy farm animals
- 2 desks



Earth and space sciences

Project 1

Gumboots

TASK:

Design and create gumboots that keep your feet dry while jumping in puddles.

CRITERIA:

- They must be made from a waterproof material.
- They must fit on a group member's feet and cover all the way up to their knee.
- They must not fall apart or go soggy after jumping in puddles.

SUGGESTED MATERIALS:

- tape
- waterproof material



Earth and space sciences

Project 1

Gumboots

- Find out how gumboots are usually made and why different materials are used.
- Plan and draw a diagram of your gumboots. Label the materials you will use to make each part.
- Collect the materials you will need, including tape and waterproof material.
- Create your boots to look like your plan.
- Check that your boots meet the criteria.
- Give a presentation explaining how you made your gumboots and in which season they would most likely be worn.



Physical sciences

Project

Spinning top

TASK:

Design and create a spinning top using craft materials.

CRITERIA:

- It must spin for 10 seconds. Count to 10 slowly to test it.
- It must be a circle shape.
- It must be coloured in a two- or three-colour pattern.

SUGGESTED MATERIALS:

- cereal box
- paper
- a matchstick or pencil
- circle stencil or plastic cup
- plastic modelling clay or playdough



Physical sciences

Project

Spinning top

- Find out how to make a spinning top using craft materials.
- Plan and draw a diagram of your spinning top. Label the materials you will use to make each part.
- Collect the materials you will need, including a cereal box, paper, a matchstick or pencil, a circle stencil or plastic cup, and plastic modelling clay or playdough.
- Create your spinning top to look like your plan.
- Check that your spinning top meets the criteria.
- Give a presentation explaining how you made your spinning top and showing your spinning top in action.

