

Biological sciences

Project
1

Bird's nest

TASK:

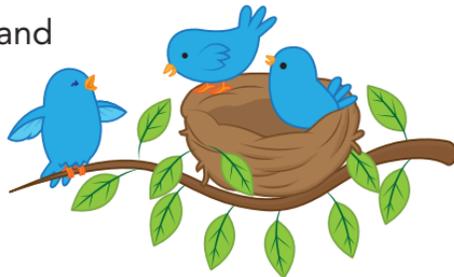
Design and create a nest to keep a bird's egg safe and warm.

CRITERIA:

- It must be big enough to fit one egg inside it.
- It must be made using craft sticks and cotton wool.
- It must keep the egg safe from wind and other birds that may eat the egg.

SUGGESTED MATERIALS:

- craft sticks
- cotton wool
- PVA glue
- 1 plastic egg



Biological sciences

Project
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Bird's nest

- Find out about different types of birds' nests.
- Plan and draw a diagram of your bird's nest. Label the materials you will use to make each part.
- Collect the materials you will need, including craft sticks, cotton wool, PVA glue and a plastic egg.
- Create your bird's nest to look like your plan.
- Check that your bird's nest meets the criteria.
- Create a video explaining how you made your bird's nest and how your nest will keep an egg safe and warm.



Crazy kite

TASK:

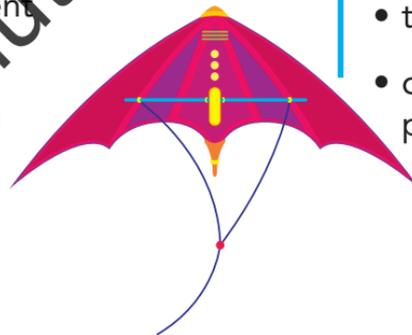
Design and create a crazy kite that will fly on a windy day.

CRITERIA:

- It must combine craft sticks or skewers, cardboard from a cereal box, cellophane and string.
- It must have at least six different 2D shapes along its tail.
- It must be about the size of an A4 piece of paper.

SUGGESTED MATERIALS:

- cereal box
- cellophane
- string
- craft sticks or skewers
- tape
- one A4 piece of paper



Chemical sciences

Project 1

Crazy kite

- Find out how to make different kites using craft materials.
- Plan and draw a diagram of your crazy kite. Label the materials you will use to make each part.
- Collect the materials you will need, including a cereal box, cellophane, string, craft sticks or skewers, tape and an A4 piece of paper.
- Create your crazy kite to look like your plan.
- Check that your crazy kite meets the criteria.
- Give a presentation explaining how you combined materials to make your kite and test it to see if it flies in the wind.



Mine pit model

TASK:

Design and create a model of a mine pit using yellow playdough.

CRITERIA:

- It must contain four toy trucks carrying five gems each out of the pit ($4 \times 5 = 20$).
- It must include a total of 50 gems—20 carried by trucks and the remainders in the walls of the mine pit.
- It must have a video showing how humans collect Earth's resources from the ground.

SUGGESTED MATERIALS:

- yellow playdough
- 50 gems
- 4 toy trucks
- digital camera or iPad®



Earth and space sciences

Project 1

Mine pit model

- Find out how Earth's resources are collected from mine pits.
- Plan and draw a diagram of your mine pit model. Label the materials you will need for each part.
- Collect the materials you will need, including yellow playdough, 50 gems, 4 toy trucks and a digital camera or an iPad®.
- Create your mine pit model to look like your plan.
- Check that your mine pit model meets the criteria.
- Share your mine pit model by showing your video to the class.



Physical sciences

Project 1

Fidget spinner

TASK:

Design and create a fidget spinner using plastic bottle lids.

CRITERIA:

- It must be in a triangular shape.
- It must spin freely when you hold the centre of the fidget spinner.
- You must make a video showing how your fidget spinner spins differently with different amounts of push.

SUGGESTED MATERIALS:

- plastic bottle lids
- cardboard
- a wooden skewer
- glitter
- PVA glue
- a digital camera or iPad®



Physical sciences

Project 1

Fidget spinner

- Find out how to make fidget spinners using plastic bottle lids.
- Plan and draw a diagram of your fidget spinner. Label the materials you will use to make each part.
- Collect the materials you will need, including plastic bottle lids, cardboard, a wooden skewer, glitter, PVA glue and a digital camera or iPad®.
- Create your fidget spinner to look like your plan.
- Check that your fidget spinner meets the criteria.
- Give a presentation explaining how you made your fidget spinner. Show the video of your fidget spinner in action.

