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| **Fortune Cookie** | | |
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| Making a fortune cookie from card | | |
| **Subject(s):** Design and Technology, Mathematics  **Approx time:** 30 – 45 minutes |  | **Key words / Topics:**   * Card * Crease * Template * 3D shape * Fold * Lunar new year |
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| Stay safe  Whether you are a scientist researching a new medicine or an engineer solving climate change, safety always comes first. An adult must always be around and supervising when doing this activity. You are responsible for:    • ensuring that any equipment used for this activity is in good working condition  • behaving sensibly and following any safety instructions so as not to hurt or injure yourself or others    Please note that in the absence of any negligence or other breach of duty by us, this activity is carried out at your own risk. It is important to take extra care at the stages marked with this symbol: ⚠ | | |
| **Suggested Learning Outcomes** |  |  |
| * To know what a 3D shape is * To understand how structures are made * To be able to make a fortune cookie structure from card circles | | |
| **Introduction** |  |  |
| This is one of a series of resources that use seasonal events or celebrations to support the teaching of the primary national curriculum. This resource is designed to allow learners to use the theme of the lunar new year to develop their knowledge and skills in Design & Technology. It focuses on making and assembling a fortune cookie from card. | | |
| **Purpose of this activity**  In this activity learners will learn about cutting and folding simple 3D structures within a graphics project. Learners will use a provided template to cut out the circle for the fortune cookie.  This activity could be used as a main lesson activity, to teach learners about simple structures made from separate parts. Additionally, this could be used as an engagement activity to start a discussion about cultural traditions and how they originate. | | |
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| **Activity** |  | **Teacher notes** |
| **Introduction (5-10 minutes)**  Teacher to explain that learners are going to make an assemble a fortune cookie using card circles and messages from a template. Teacher to explain what fortune cookies are used for.  **Making the fortune cookie (20-30 minutes)**  Teacher to demonstrate the steps shown in the teacher presentation and listed below:   * Step 1⚠ – Safely cut the fortune cookie circles and messages using scissors. * Step 2 – Gently fold the fortune cookie template in half and make a 10 mm crease in the centre. * Step 3 – Bend the circle in half making sure the crease is horizontal. * Step 4 – Push the crease line in and fold the fortune cookie sides together. * Step 5 – Gently unfold the fortune cookie and add a message. Fold back the fortune cookie and glue together.   Learners to complete each step to conduct the activity for themselves. The teacher presentation could be left on the whiteboard as a supporting guide as they do this.  **Discussing the results of the activity (5 minutes)**  Teacher to discuss the results of the activity with learners. What went well and what could be improved? Teacher to explain how nets are used to make objects and how separate parts are used to make a larger structure. |  | **Making a fortune cookie activity**  Print the activity sheet onto thin card and distribute to the learners.  Step 2 – Learners may find it easier to pinch the centre between their fingers to create the crease. The crease should be in the centre only and not extend along the full length of the cookie.  Steps 3, 4 – Ensure that the crease is horizontal otherwise when it is pressed in it will not fold correctly.  Step 5 – Learners to slightly unfold the fortune cookie and slide in a message. Then fold the fortune cookie back together. Learners to use a glue stick to join the folds together and, if required, use a paper clip to hold the fold together until the glue is dry. |
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| **Differentiation** |  |  |
| **Basic** |  | **Extension** |
| * Provide learners with pre-cut parts from the template sheet. |  | * Learners add their own designs and decoration to their fortune cookie * Learners to write their own messages on the blank message template |
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| **Resources** |  | **Required files** icon-docicon-pdficon-ppt | |
| * Thin, coloured Card * Scissors * Glue sticks * Paper fasteners * Decoration materials |  | icon-ppt Fortune Cookie presentation  icon-doc Fortune cookie handout | |
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| **Additional websites** |  |  | |
| * **YouTube:** Fortune cookies how they are made**:** <https://www.youtube.com/watch?v=hVagknWDmB8> * Interesting facts about the Chinese New Year: https://www.kids-world-travel-guide.com/chinese-new-year.html and https://www.theschoolrun.com/homework-help/chinese-new-year * BBC bitesize video about Chinese New Year: https://www.youtube.com/watch?v=7YA9fwm4s8M | | | |
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| **Related activities (to build a full lesson)** |  |  | |
| **Starters** (Options)   * Discuss what traditions the class know for seasonal celebrations * Watch the BBC bitesize video on **YouTube** introducing the Chinese New Year**:** https://www.youtube.com/watch?v=7YA9fwm4s8M * Watch the video on **YouTube:** Fortune cookies how they are made:<https://www.youtube.com/watch?v=hVagknWDmB8> | | | **Plenary**   * Discuss the outcome of the activity and share their fortune cookies with the class. What went well and what could be improved? |
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| **The Engineering Context** |
| * Engineers use templates and nets to make prototypes of products ranging from buildings to vacuum cleaners. Templates are also used to make most card-based packaging. |

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| **Curriculum links** | |
| **England: National Curriculum**  Mathematics  KS2 Geometry   * recognise, describe, and build simple 3-D shapes, including making nets. | **Northern Ireland Curriculum**  KS2 – Mathematics and Numeracy  Shape and Space   * build and make models with 3D shapes; create pictures and patterns with 2D shapes. |
| **Scotland: Curriculum for Excellence**  Numeracy and Mathematics  Shape, position and movement  MTH 2-16   * through practical activities, I can show my understanding of the relationship between 3D objects and their nets. | **Wales: National Curriculum**  Mathematics  KS2 – Using geometry skills   * construct solids from given nets. |
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| **Assessment opportunities** | | |
| * Informal teacher assessment of practical skills through observation of learners. * Formal teacher assessment of activity results. | | |
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