



School Radio

Primary - Maths

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School Radio 2014

The date	The subject Maths		Class		Teacher	
Starter	Levels/Criteria	Whole class input:	Differentiated/ target groups:	Plenary:	AFL:	Class list:
<p>Each table to have a selection of 2d and 3d shapes on their table: Freely explore and discuss, using questions below to prompt table/partner talk.</p>	<p>Level 1 <u>When working with 2D and 3D shapes, pupils use everyday language to describe properties and positions.</u> They measure and order objects using direct comparison, and order events.</p> <p>Level 2 <u>Pupils use mathematical names for common 3D and 2D shapes and describe their properties, including numbers of sides and corners.</u> They distinguish between straight and turning movements, understand angle as a measurement of turn, and recognise right angles in turns. They begin to use everyday non-standard and standard units to measure length and mass.</p> <p>Level 3 <u>Pupils classify 3D and 2D shapes in various ways using mathematical properties</u> such as reflective symmetry for 2D shapes. They use non-standard units, standard metric units of length, capacity and mass, and standard units of time, in a range of contexts.</p> <p>Level 4 <u>Pupils make 3D mathematical models by linking given faces or edges, draw common 2D shapes in different orientations on grids.</u> They reflect simple shapes in a mirror line. They choose and use appropriate units and instruments, interpreting, with appropriate accuracy, numbers on a range of measuring instruments. They find perimeters of simple shapes and find areas by counting squares.</p> <p>Source: http://www.education.gov.uk/schools/teachingandlearning/curriculum/primary/b00199044/mathematics/attainment/ma3</p>	<p>Using the file attached: “properties_of_2D_3D_Shapes from Primary resources website” Sourced from: http://www.primaryresources.co.uk/maths/mathsE3.htm</p> <p>Open the powerpoint and use as a discussion point: Questions and answers to whole class: Asking children: What shapes they have, what are they? Can they describe the properties of each shape. FACT INPUT: State the difference between 2d and 3d shapes. FACT INPUT: Explain the key terms: face, edge and vertice.</p> <p>Assign roles in pairs. These can be changed throughout the lesson/lessons: Giving each child an opportunity to ask and answer questions:</p> <p>Using Radio equipment, make a “THE SHAPE PROGRAMME”.</p> <p>The interviewers ask the interviewees set of questions: See the attached script for ideas. RECORD EACH TABLE’S INTERVIEW.</p>	<p>SEN: Modelling ideas. Support with knowledge on shape properties: Print out from IWB required.</p>	<p>Listen to selected pieces from interviews highlighting strengths and relevant skills. Children contribute in ideas to improve interview: Are the key facts accurate?</p>	<p>Whole class learning?</p>	
<p>Table resources: Questions</p> <p>Placed on each table to begin discussion.</p> <p>Cards attached. (a seating plan may be required to maximise the potential of all: To dilute skills and enable them to transfer fairly through each group).</p>			<p>Lower ability: As above.</p>	<p>Key question:</p>	<p>Future improvements: Extension: Create an interview throughout the school: Interviewing teachers and other classes. Note for 2a - Cross reference to English En1 Speaking and listening: Speaking 1. To speak clearly, fluently and confidently to different people, pupils should be taught to: b. choose words with precision En1 Speaking and listening: Breadth of study 8. The range should include: c. describing events and experiences En1 Speaking and listening: Breadth of study 10. The range of purposes should include: c. commenting and reporting En3 Writing: Breadth of study 9. The range of purposes for writing should include: a. to communicate to others d. to organise and explain information</p>	
			<p>Middle ability: Some prompting. Independent work. Blank scripts given to encourage writing their own questions and answers: Prompting further reasoning.</p> <p>Higher ability: Independent work with blank scripts, as above.</p>	<p>What is a 3d shape? How would you describe it? Which shape has the most sides?</p>		

Resources:	Notes/Resources	
<p>Using the file attached: “properties_of_2D_3D_Shapes from Primary resources website” Sourced from: http://www.primaryresources.co.uk/maths/mathsE3.htm</p>	<p>Useful lesson plan ideas for further teaching and powerpoint resources: http://www.tes.co.uk/teaching-resource/Shape-Lesson-Plan-6066115/</p>	
<p>Some useful hand outs: http://www.readwritethink.org/classroom-resources/lesson-plans/going-shape-hunt-integrating-776.html?tab=3#tabs</p>	<p>Lesson plan and online 2d and 3d songs: http://www.bbc.co.uk/schools/teachers/ks2_lessonplans/maths/shapes.shtml</p>	
<p>Interactive and hand outs: http://www.teachingideas.co.uk/maths/contents_shape.htm</p>	<p>Copyright School Radio © 2014</p>	

How many sides are there on a 2d shape?
How many sides are there on a 3d shape?
Why are they different?

Which shape is your favourite?
Is it a 2d or a 3d shape?
Why do you like it?
Do any shapes remind of you another object?
A spaceship? A moon?

How many vertices does a cuboid have?
How many vertices does a cube have?
Are they the same?
Why?

Why is a 2d shape different to a 3d shape?
Can you find a 3d shape with the most sides?
Can you find a 3d shape with the most vertices?
Are they the same shape?

Script title: The Shape Programme.

Name:

Date:

Interviewer:	Which of these shapes are you favourite?
Interviewee:	
Interviewer:	Why do you like it?
Interviewee:	
Interviewer:	How many vertices does it have?
Interviewee:	
Interviewer:	What is the difference between a 2d and a 3d shape?
Interviewee:	

Script title: The Shape Programme.

BLANK COPY

Name:

Date:

Interviewer:

Interviewee:

Interviewer:

Interviewee:

Interviewer:

Interviewee:

Interviewer:

Interviewee: