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Create a number of numeracy lessons for primary 3 and Primary 4 children on shape and space. Include a mental starter, lesson outline, play ideas, questioning, assessment, differentiation and plenary. Include links to some video and worksheet resources.

Mental Starter:

Present the children with a shape and have them guess which shape it is and have them share what they know about the shape.

Lesson Outline:

Identify a range of 2D and 3D shapes

Name shapes and describe their key properties

Recognise and identify symmetry

Introduce nets of 3D shapes

Explore and compare properties of shapes

Play Ideas:

- Create a Shape game - Write down different shapes and give each group a bag of dyed rice. Have them fill the grid with the rice according to the shapes given.
- Go on a Shape Hunt - Ask the children to look around the classroom and identify all of the shapes they can find and how many of the same shapes they can find.
- Roll the dice - Give the children two different dice with different shapes and they have to roll them and match the 2D shapes with the 3D ones.

Questioning:

- What shape is this?
- How many corners does this 3D shape have?
- What is the name of this shape?
- How does this shape differ from the other shape?
- Can you create a net of the 3D shape?

Assessment:

The assessment should be formative throughout the lesson. The teacher can assess the students' understanding of the material by observing their engagement

with the activities and piece of work. Asking questions throughout the lesson can also help assess their understanding.

Differentiation:

- Give the students activities at their respective levels.
- Allow students to work in flexible groupings to suit readiness levels.
- Provide additional support as necessary.

Plenary:

For the plenary, the children can draw a self-portrait in which they use a combination of shapes. They can then explain how they used the shapes and how they created their self-portrait.

Resources:

Videos:

- Shapes Song <https://www.youtube.com/watch?v=834CgAiOROU>
- 3D Shapes <https://www.youtube.com/watch?v=etlG4zi4ut8>

Worksheets:

- 2D and 3D shapes worksheets <https://www.twinkl.co.uk/resources/maths-spag-assessment-shape-space-measures-2d-3d-shapes/maths-spag-assessment-shape-space-measures-2d-3d-shapes>
- Symmetry worksheets <https://www.twinkl.co.uk/resources/maths-spag-assessment-shape-space-measures-2d-3d-shapes/maths-spag-assessment-symmetry>