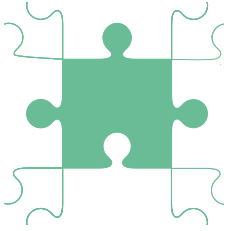


## Number: Fractions – Suggestions for teaching

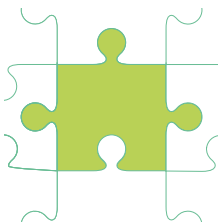
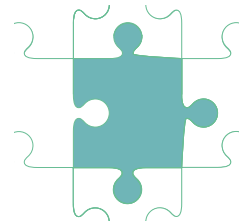


### FOSTERING PRODUCTIVE DISPOSITION

- Discuss how fractions play an important part in our everyday lives, e.g., *cooking, telling the time, creating sets, fair-sharing, etc.*
- Encourage children to observe the real-life application of fractions in everyday situations, e.g., *cutting one banana into four equal pieces.*
- Engage in open-ended fractions tasks such as ‘Odd One Out’ activities that enable children to express their understanding of fractions in numerous ways.
- Be sensitive to challenging any misconceptions or preconceived ideas about fractions.

### ENCOURAGING PLAYFULNESS WITH MATHEMATICS

- Provide children with opportunities to develop their understanding of fractions through actively engaging with concrete, pictorial and virtual resources.
- Encourage children to engage in games that reinforce a varied representation of fractions.
- Facilitate role-play scenarios in the classroom that invite discussion around fractions, e.g., *baking, measuring, building, etc.*
- Encourage children to play games with an element of chance, considering how this impacts on the outcome of the game and how this can be represented in fraction form.

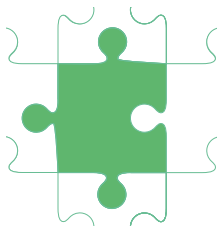
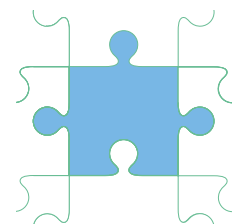


### USING COGNITIVELY CHALLENGING TASKS

- Provide opportunities for children to connect the abstract representation of fractions to concrete and pictorial examples.
- Encourage children to reflect on the strategies used to solve fractions problems.
- Provide opportunities for children to investigate and engage in open-ended activities involving fractions.

### EMPHASISING MATHEMATICAL MODELING

- Ensure children have the opportunity to explore a range of representations of fractions such as the length, area and set models.
- Enable children to explore different representations of fractions using concrete, pictorial and virtual resources.
- Use open-ended problems that enable children to develop their understanding of a model used to solve fractions problems.
- Provide opportunities for children to reflect on, discuss and refine the models they use when solving problems related to fractions.



### PROMOTING MATHS TALK

- Provide opportunities for children to discuss how fractions relate to the real-world context.
- Encourage children to listen to, share and explain ideas, strategies and solutions related to fractions.
- Facilitate the use of vocabulary related to fractions across the curriculum, e.g., *making sets in data, measuring, etc.*
- Revoice strategies used by children to solve a problem, e.g., *Seán just showed us how he used the area model of fractions to find  $\frac{3}{4}$  of 24.*