

10 or bust

Syllabus focus area and content group

Connect counting and numerals to quantities

- Count out a specified number of objects from a collection, keeping track of the count.

Model additive relations and compare quantities

- Count out a specified number of objects from a collection, keeping track of the count.
- Create, model and recognise combinations for numbers up to ten.
- Count by ones to find the total or difference

Suggested outcomes

- MAO-WM-01
- MAE-RWN-02
- MAE-CSQ-01
- MAE-CSQ-02

Resources

- Chalk
- 6-sided die
- Bean bags
- Physical activity die

Activity set up

- Draw large 10 frames on a flat surface (1 x 10 frame per student).
- Place both die, chalk and 10 bean bags at each of the 10 frames.

Learning intention

Students are learning that:

- dice have recognisable patterns for the numbers 1 - 6
- the way we structure representations can help us to subitise a collection

Success criteria

Students can:

- recognise dice patterns 1 - 6
- reorganise, model and describe combinations to 10.

Learning task

Students play using their own ten frame against the player next to them.

- Student A rolls the 6-sided number dice and counts, placing the corresponding number of bean bags into the 10 frame.
- While student A is counting bean bags for the 10 frame, student B rolls the physical activity dice and performs the movement the number of times shown on the 6-sided number dice. For example, if Student A rolls a 5 and Student B rolls star jumps, Student B would do 5 star jumps.
- Students have 3 turns each.
- Students can choose to miss 1 turn, but it cannot be the last roll.
- If a student goes over 10 bean bags in the frame, they have ‘busted’ and are out.
- If both players are still “in”, then the player closest to 10 after 3 rolls each is the winner.
- Players can play best out of 3.

Increase/decrease challenge

- Play by counting back from 10.
- Use a number line instead of a 10 frame.

Talking and thinking like mathematicians

- How could we change the game to make it more/less challenging?
- Did you work out a way to play this game so that you didn’t lose?
- What was your strategy? Did it work?