

Skittles

Purpose:

The purpose of this activity is to help your child learn the addition and subtraction facts of 10. For example, $2 + 8 = 10$ and $10 - 8 = 2$.

Link to Number Framework:

Number Facts, Stages 0-3

What you need:

- A set of 10 skittles. You can make these using empty plastic bottles with a little sand or water in them to help them balance.
- Two balls

What to do:

- Set up skittles in a 4, 3, 2, 1 triangular array. You can draw circles on the ground (if outside) or place these on a piece of material or sheet of plastic with circles drawn on (if inside), to help children place these correctly.
- The child rolls the ball. Talk about how many skittles have fallen, for example if three skittles are down:
How many skittles are standing? 7
How many skittles have fallen? 3
We can say 7 and 3 is 10, or 10 take away 3 is 7
- It is important to focus on both addition and subtraction facts to help your child understand the link between these.
- Help your child to write the addition and subtraction facts on a piece of paper:
 $7 + 3 = 10$
 $10 - 3 = 7$
- Set up the skittles again and repeat.

What to expect your child to do:

- Know the answer to addition facts to 10 without having to calculate:

$$\begin{array}{ll} 0 + 10 = 10 & 10 + 0 = 10 \\ 1 + 9 = 10 & 9 + 1 = 10 \\ 2 + 8 = 10 & 8 + 2 = 10 \\ 3 + 7 = 10 & 7 + 3 = 10 \\ 4 + 6 = 10 & 6 + 4 = 10 \\ 5 + 5 = 10 & \end{array}$$

- Know the answer to subtraction facts of 10 without having to calculate:

$$\begin{array}{ll} 10 - 1 = 9 & 10 - 9 = 1 \\ 10 - 2 = 8 & 10 - 8 = 2 \\ 10 - 3 = 7 & 10 - 7 = 3 \\ 10 - 4 = 6 & 10 - 6 = 4 \\ 10 - 5 = 5 & 10 - 10 = 0 \\ 10 - 0 = 10 & \end{array}$$

He Kupu Māori

skittle	pātuki
addition facts	meka tāpiritanga
subtraction facts	meka tangohanga

He Whakawhitinga Kōrero:

- Whakatūria ngā pātuki. (*Stand the skittles.*)
- E hia ngā pātuki? (*How many skittles are there?*)
- Pīrorihia te pōro. (*Roll the ball.*)
- E hia ngā pātuki i hinga? E hia e tū tonu ana? (*How many skittles fell? How many are still standing?*)
- Tekau ngā pātuki e tū ana i te tīmatanga. E waru i hinga. E rua e toe ana. He aha te tangohanga? (*10 skittles standing at the beginning. 8 fell. 2 are left. What is the subtraction?*) $10 - 8 = 2$
- E waru ngā pātuki i hinga. E rua e tū tonu ana. Tekau ngā pātuki katoa. He aha te tāpiritanga? (*8 skittles fell. 2 are left standing. 10 skittles altogether. What is the addition?*) $8 + 2 = 10$
- Tuhia te tāpiritanga me te tangohanga ki te pepa. (*Write down the addition and subtraction on the paper.*)