

Recall and demonstrate proficiency with addition facts to 20; extend...

recall and demonstrate proficiency with addition facts to 20; extend and apply facts to develop related subtraction facts

Learning intention

- recall and demonstrate proficiency with addition facts to 20; extend and apply facts to develop related subtraction facts

Teach and model

- using ten-frames or materials such as connecting cubes to develop and record addition and subtraction strategies including doubles, near doubles, counting on...
- partitioning and rearranging collections to practice and develop fluency with addition and subtraction facts to 20 leading to the recall of these facts; for example...
- using partitioning to develop and record facts systematically; for example, "How many ways can 10 birds be spread among 2 trees?", $10 = 10 + 0$, $10 = 9 + 1$, $10 = 8 + \dots$

Check understanding

- Explain the main idea in recall and demonstrate proficiency with addition facts to 20; extend... using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.