

Addition and Subtraction Within 100 (Grade 2)

Central concept: **Addition & Subtraction to 100**

Connections

- Addition & Subtraction to 100 (explores) -> Composing 100
- Composing 100 (shows) -> Sums Made Many Ways
- Composing 100 (uses) -> Order Doesn't Change Sum
- Addition & Subtraction to 100 (relies on) -> Number Facts
- Number Facts (supports) -> Strategies
- Strategies (includes) -> Make Tens
- Strategies (includes) -> Use Doubles
- Addition & Subtraction to 100 (practices) -> Add to 100
- Addition & Subtraction to 100 (practices) -> Subtract from 100
- Add to 100 (verified by) -> Check with Inverse
- Subtract from 100 (verified by) -> Check with Inverse
- Addition & Subtraction to 100 (finds) -> Missing Number
- Addition & Subtraction to 100 (means) -> Represents Quantities
- Represents Quantities (used for) -> Solve Problems

Notes

- **Addition & Subtraction to 100:** Grade 2 students investigate addition and subtraction within 100. [Outcome](#)
- **Composing 100:** 100 can be seen as a mix of groups of 10. [Skills](#)
- **Sums Made Many Ways:** One sum can be made in more than one way, even with extra addends. [Understanding](#), [Skills](#)
- **Order Doesn't Change Sum:** Adding numbers in a different order still gives the same sum. [Knowledge](#)
- **Number Facts:** Knowing facts to 10 helps with bigger addition and subtraction. [Knowledge](#)
- **Strategies:** Ways to add and subtract two-digit numbers. [Knowledge](#)
- **Make Tens:** Group numbers into tens to add or subtract easier. [Knowledge](#)
- **Use Doubles:** Doubles facts, like 5+5, help solve harder problems. [Knowledge](#)
- **Add to 100:** Add numbers so the total reaches up to 100. [Skills](#)
- **Subtract from 100:** Subtract numbers starting from up to 100. [Skills](#)
- **Check with Inverse:** Use the opposite operation to check a sum or difference. [Skills](#)
- **Missing Number:** Find a missing part in an addition or subtraction problem. [Skills](#)
- **Represents Quantities:** Addition and subtraction show totals or differences of things we count or measure. [Understanding](#)
- **Solve Problems:** Use addition and subtraction with objects or lengths to solve real problems. [Skills](#), [Understanding](#)

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graph TD; A[Addition & Subtraction to 100] -- explores --> B[Composing 100]; A -- practices --> C[Add to 100]; A -- practices --> D[Subtract from 100]; B --> E[Order Doesn't Change Sum]; B --> F[Sums Made Many Ways]; E --> G[Strategies]; G -- includes --> H[Use Doubles]; G --> I[Number Facts]; C --> J[Check with Inverse]; D --> J; J -- verified by --> D; F --> K[Solve Problems]; K --> L[Represents Quantities];
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The concept map for "Addition & Subtraction to 100" is organized as follows:

- Central concept:** Addition & Subtraction to 100
- Composition (explores):**
 - Composing 100
 - Order Doesn't Change Sum
 - Strategies
 - Use Doubles
 - Number Facts
 - Sums Made Many Ways
 - Solve Problems
 - Represents Quantities
- Practices (practices):**
 - Add to 100
 - Check with Inverse
 - Subtract from 100
 - Check with Inverse

Legend:

- Central concept (dark blue)
- composition (light blue)
- facts-strategies (medium blue)
- skills (yellow)
- meaning (red)

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