Gather Your Materials

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- **Single Channel Pipette** (1-20 μL)
- **Multichannel Pipette** (200 μL)
- **Qubit Assay**
- **Qubit Flex Tube Strips**
- **Qubit Flex Reservoir** (10 mL)
1. **Before You Begin**

Select **Calculators** from the Qubit Flex home screen.

These two calculators will help you prepare your assays.

- **Assay Range Calculator**: Use to show how the assay range changes based on the sample volume used (1-20 μL). Tap 1 to view range details.
  - **Core range** = High accuracy
  - **Extended range** = Moderate accuracy

- **Reagent Calculator**: Use to determine the amount of working solution to prepare.
  - One sample = One tube of the tube strip
  - One standard = All 8 tubes of the tube strip
  - Overage = 3 extra tubes

2. **Prepare the Assay**

Prepare working solution based on Reagent Calculator results.

Pour working solution into reservoir.

Pipette 190 μL of working solution into standard tube strips.

Add 10 μL of standards.

Pipette 180-199 μL of working solution into sample tube strips.

Add 1:20 μL of sample.

Vortex all tubes for 2-3 seconds, check for bubbles, then incubate for 2 minutes (15 minutes for protein) at room temperature.

3. **Read Standards & Run Samples**

Open circles on graph = Standards
  - Blue = Samples in core range
  - Orange = Samples in extended range
  - Red = Samples outside of range

Use the **Molarity Calculator** to convert values to molarity based on nucleic acid length.

4. **Analyze the Results**

Use the **Normalization Calculator** to determine how to dilute the samples to the same concentration.