

# Music with Fractions

1. As a group of 4, use a  $\frac{1}{8}$  cup to measure colored liquid into 8 glasses adding an extra  $\frac{1}{8}$  to each cup.  
( $\frac{1}{8}$ ,  $\frac{2}{8}$ ,  $\frac{3}{8}$ ,  $\frac{4}{8}$ ,  $\frac{5}{8}$ ,  $\frac{6}{8}$ ,  $\frac{7}{8}$ ,  $\frac{8}{8}$ )
2. Each person will then hypothesize the outcome of hitting each glass with a metal spoon and write it on your challenge sheets.
3. Hit each glass with a metal spoon and observe the change in pitch between the eight glasses.
4. Record your observations on the challenge sheet.
5. Lastly, as a group create a song using the glass fractions (must simplify each fraction to the smallest denominator possible):

Example:

$\frac{1}{2}$     $\frac{1}{2}$     $\frac{3}{8}$     $\frac{1}{2}$     $\frac{1}{2}$     $\frac{3}{4}$     $\frac{1}{2}$   
 $\frac{1}{2}$

6. This song arrangement must then be written on your challenge sheets.

