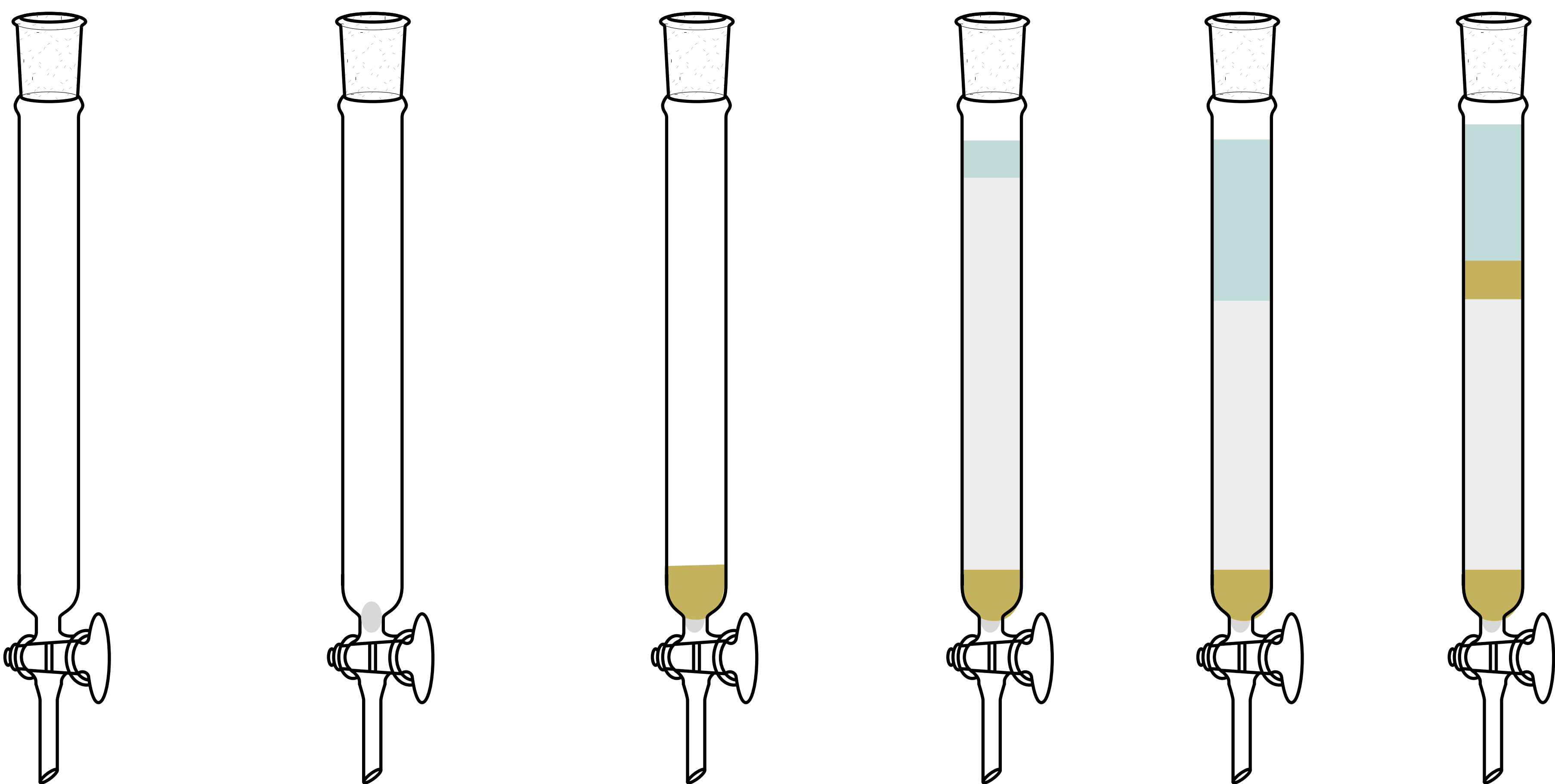


Building the Column



**empty column**  
typically oven-dried  
after rinsing with water  
and acetone

**cotton wool**  
is added to the  
column and packed into  
the bottom neck

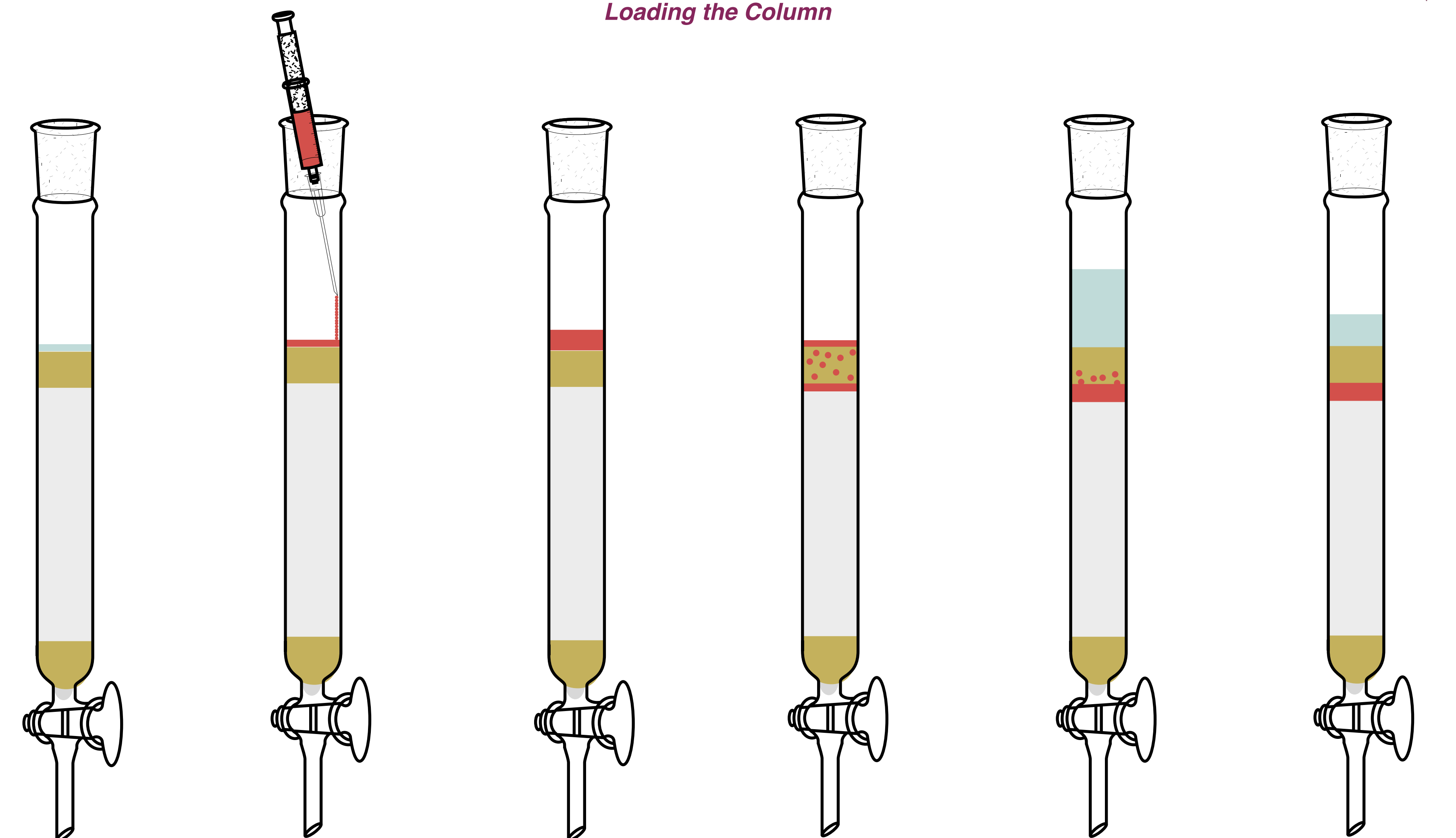
**sand**  
is added to the column  
to build an even  
surface for silica

**silica**  
wetted with the  
nonpolar solvent is  
poured in

**loaded silica**  
is compressed  
with solvent and air  
or nitrogen

**sand**  
is added to  
the top of the silica  
for protection

Loading the Column



**solvent**  
is pushed down  
near the start  
of the silica

**crude**  
is dissolved in  
a minimal amount of  
solvent and pipetted

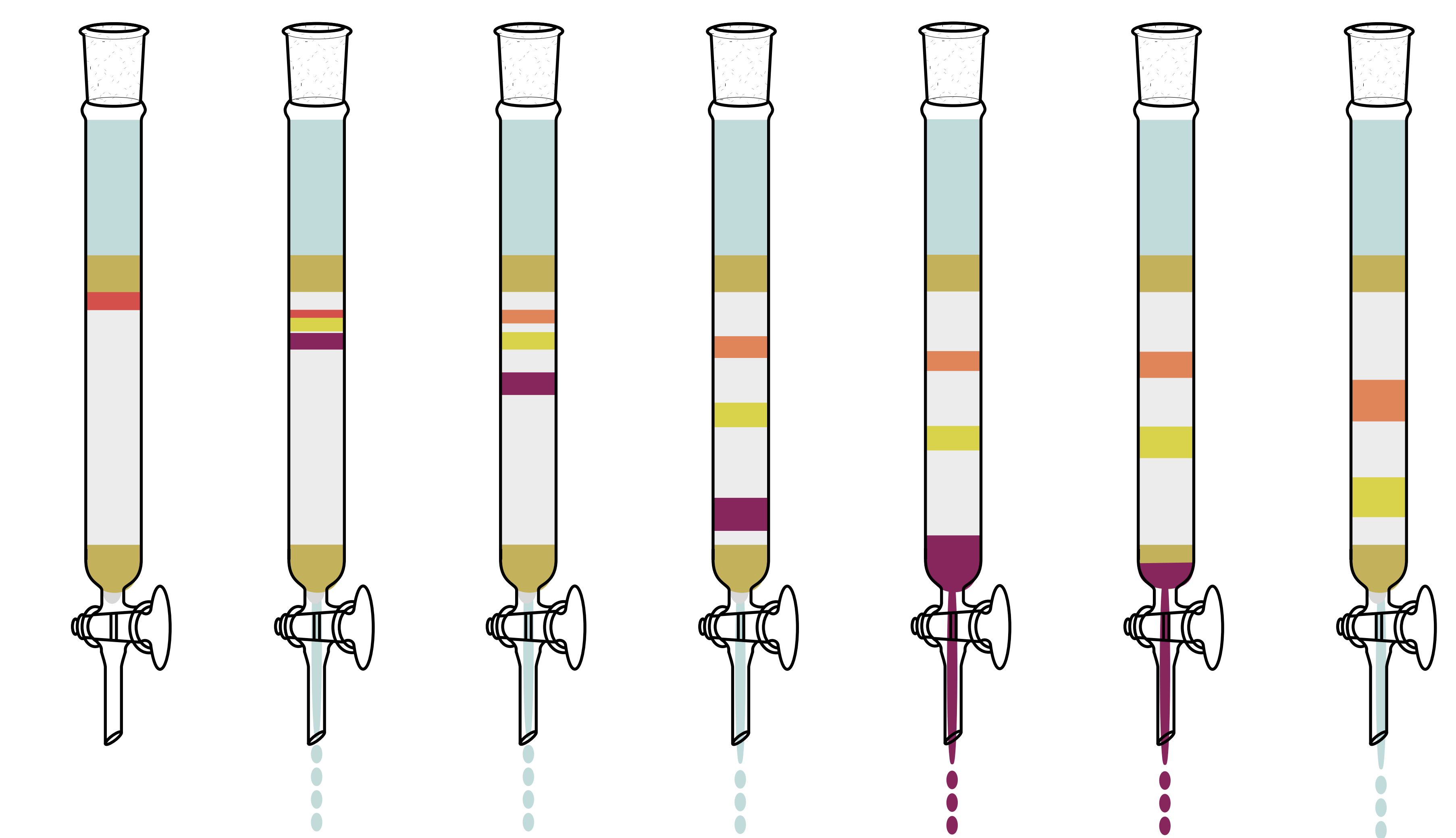
**loaded crude**  
is washed down  
glass with small  
amount of solvent

**loaded crude**  
is pushed through  
sand into silica  
with air or nitrogen

**loaded crude**  
is pushed into silica  
further with additional  
nonpolar solvent

**bound crude**  
is ready to be  
purified via  
chromatography

Running the Column



**solvent**  
is pushed through  
the column to separate  
crude into components

**column runs**  
and crude components  
start to elute, with non-polar  
compounds eluting first

Analyzing the Results

