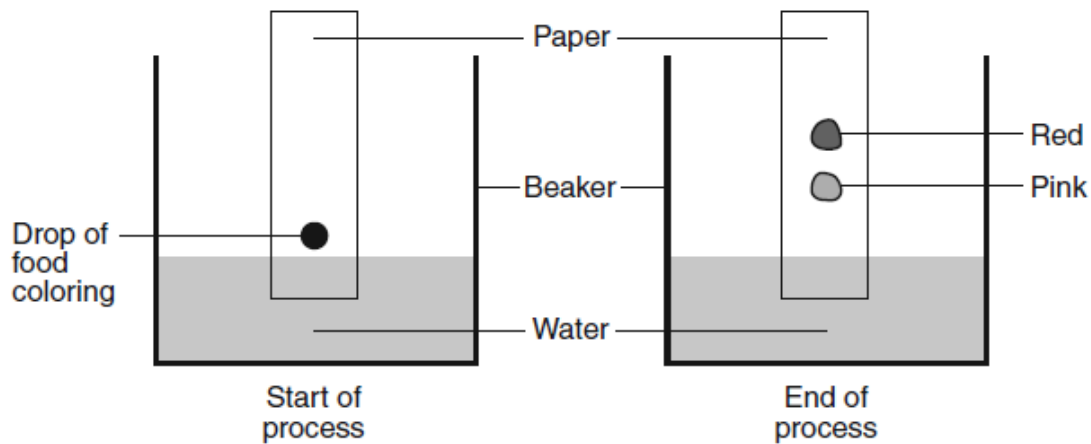


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1. A student is filtering a mixture of sand and salt water into a beaker. What will be found in the beaker after the filtration is completed?
 - A) sand, only
 - B) salt, only
 - C) sand and salt
 - D) salt and water
 2. By which process is a precipitate most easily separated from the liquid in which it is suspended?
 - A) neutralization
 - B) distillation
 - C) condensation
 - D) filtration
 3. Recovering the salt from a mixture of salt and water could best be accomplished by
 - A) evaporation
 - B) filtration
 - C) paper chromatography
 - D) density determination
 4. Which process would most effectively separate two liquids with different molecular polarities?
 - A) filtration
 - B) fermentation
 - C) distillation
 - D) conductivity
 5. A mixture of crystals of salt and sugar is added to water and stirred until all solids have dissolved. Which statement best describes the resulting mixture?
 - A) The mixture is homogeneous and can be separated by filtration.
 - B) The mixture is homogeneous and cannot be separated by filtration.
 - C) The mixture is heterogeneous and can be separated by filtration.
 - D) The mixture is heterogeneous and cannot be separated by filtration.
 6. At room temperature, a mixture of sand and water can be separated by
 - A) ionization
 - B) combustion
 - C) filtration
 - D) sublimation
 7. A mixture of sand and table salt can be separated by filtration because the substances in the mixture differ in
 - A) boiling point
 - B) density at STP
 - C) freezing point
 - D) solubility in water
 8. Which two physical properties allow a mixture to be separated by chromatography?
 - A) hardness and boiling point
 - B) density and specific heat capacity
 - C) malleability and thermal conductivity
 - D) solubility and molecular polarity
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9. Given the diagram representing a process being used to separate the colored dyes in food coloring:



Which process is represented by this diagram?

- A) chromatography
- B) electrolysis
- C) distillation
- D) titration