

# Activity 1



Complete  
the  
Chart

## ESL/ELD Stage 1 + Stage 2: Grade 7 Science Strand 2: Pure Substances and Mixtures (Vol.1)

### Mechanical Mixtures, Solutions and Pure Substances Teacher's Answers (page 4)



Instructions: Label each diagram as either a mechanical mixture, solution or pure substance. Explain your choice using these phrases:

All particles are the same, Able to see each substance in the mixture, Unable to see each substance in the solution

#### Common Table Salt



- ☐ Mechanical mixture  
☐ Solution  
☒ Pure Substance

Briefly explain your choice.

All particles are  
the same

#### Raisin Bran ® Cereal



- ☒ Mechanical mixture  
☐ Solution  
☐ Pure Substance

Briefly explain your choice.

Able to see each  
substance in the  
mixture

#### Pencil



- ☒ Mechanical mixture  
☐ Solution  
☐ Pure Substance

Briefly explain your choice.

Able to see each  
substance in the  
mixture

#### Pizza

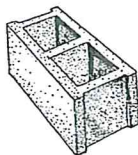


- ☒ Mechanical mixture  
☐ Solution  
☐ Pure Substance

Briefly explain your choice.

Able to see each  
substance in the  
mixture

#### Concrete Block



- ☒ Mechanical mixture  
☐ Solution  
☐ Pure Substance

Briefly explain your choice.

Able to see each  
substance in the  
mixture

#### Common Table Sugar



- ☐ Mechanical mixture  
☐ Solution  
☒ Pure Substance

Briefly explain your choice.

All particles are  
the same

#### Black Coffee + Sugar



- ☐ Mechanical mixture  
☒ Solution  
☐ Pure Substance

Briefly explain your choice.

Unable to see each  
substance in the  
solution

#### Metal Tins to be Recycled



- ☒ Mechanical mixture  
☐ Solution  
☐ Pure Substance

Briefly explain your choice.

Able to see each  
substance in the  
mixture

#### Aluminum Can

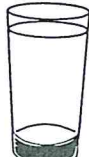


- ☐ Mechanical mixture  
☐ Solution  
☒ Pure Substance

Briefly explain your choice.

All particles are  
the same

#### Water (no additives)



- ☐ Mechanical mixture  
☐ Solution  
☒ Pure Substance

Briefly explain your choice.

All particles are  
the same

#### Oxygen Gas



- ☐ Mechanical mixture  
☐ Solution  
☒ Pure Substance

Briefly explain your choice.

All particles are  
the same

#### Hair Shampoo



- ☐ Mechanical mixture  
☒ Solution  
☐ Pure Substance

Briefly explain your choice.

Unable to see each  
substance in the  
solution

#### Perfume or Cologne



- ☐ Mechanical mixture  
☒ Solution  
☐ Pure Substance

Briefly explain your choice.

Unable to see each  
substance in the  
solution

#### Diamond



- ☐ Mechanical mixture  
☐ Solution  
☒ Pure Substance

Briefly explain your choice.

All particles are  
the same

#### Box of Crayons



- ☒ Mechanical mixture  
☐ Solution  
☐ Pure Substance

Briefly explain your choice.

Able to see each  
substance in the  
mixture

#### Toothpaste



- ☐ Mechanical mixture  
☒ Solution  
☐ Pure Substance

Briefly explain your choice.

Unable to see each  
substance in the  
solution