

Grade 7 Mixtures Lab Report

Station 1 – Oil and Water

You will need the following items at this station:

- Beaker with Water
- Beaker with Oil
- Test Tube Rack
- Test Tube
- Funnel
- Rubber Stopper
- Graduated Cylinder
- 5 mL Scoop



Please follow the following instructions to complete this station:

1. Record observations of the materials before you mix them.
2. Measure out 20 mL of room temperature water and pour it into a clean test tube.
3. Place the test tube in the test tube rack.
4. Using the measuring spoon and the funnel, add 5 mL of oil to the test tube.
5. Record observations of the mixture before you shake it.
6. Put the stopper in the test tube, holding it with your thumb, turn the tube upside down, and shake it.
7. Record what you observe immediately after you are done shaking the mixture.
8. Allow the test tube to sit in the test tube rack for a minimum of three minutes (more time is better).
9. Record observations of the mixture after it has rested.
10. Wash your test tube and place it upside down in the rack to dry.
11. Tidy up all of your other supplies, leaving no mess for the next group.

Grade 7 Mixtures Lab Report

Station 2 – Tums and Water

You will need the following items at this station:

- Beaker with Water
- Chewable Antacid Tablet (Tums)
- Test Tube Rack
- Test Tube
- Funnel
- Rubber Stopper
- Graduated Cylinder
- Stir Stick
- Zip-Lock Bag
- Rubber Mallet
- Safety Goggles (4)



Please follow the following instructions to complete this station:

1. Place a single chewable antacid tablet in a zip-lock bag and seal it.
2. Wearing safety goggles, using the rubber mallet, gently tap on the antacid tablet, repeatedly, until it has been pulverized into a powder.
3. Record observations of the materials before you mix them.
4. Measure out 20 mL of room temperature water and pour it into a clean test tube.
5. Place the test tube in the test tube rack.
6. Plug the funnel with your finger and pour the antacid tablet from the bag, through the funnel
7. Hold the funnel over the test tube, then quickly move your finger so that all of the powder drops into the water.
8. Record observations of the mixture before you shake it.
9. Gently poke the antacid powder with the stir stick, pushing it slowly into the water.
10. Put the stopper in the test tube, holding it with your thumb, turn the tube upside down, and shake it.
11. Record what you observe immediately after you are done shaking the mixture.
12. Allow the test tube to sit in the test tube rack for a minimum of three minutes (more time is better).
13. Record observations of the mixture after it has rested.
14. Wash your test tube and place it upside down in the rack to dry.
15. Tidy up all of your other supplies, leaving no mess for the next group.

Grade 7 Mixtures Lab Report

Station 3 – Alka-Seltzer and Water

You will need the following items at this station:

- Beaker with Water
- Alka-Seltzer Antacid Tablet
- Test Tube Rack
- Test Tube
- Funnel
- Rubber Stopper
- Graduated Cylinder
- Stir Stick
- Zip-Lock Bag
- Rubber Mallet
- Plastic Tray
- Safety Goggles (4)



Please follow the following instructions to complete this station:

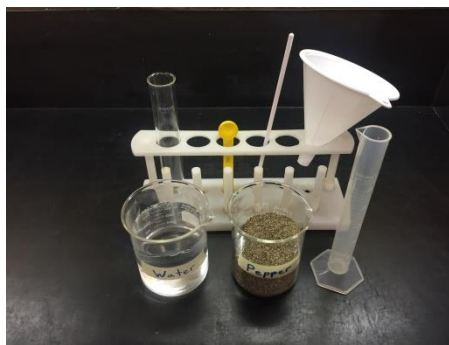
1. Place an Alka-Seltzer tablet in a zip-lock bag and seal it.
2. Wearing safety goggles, using the rubber mallet, place the bag on the floor and gently tap on the tablet, repeatedly, until it has been pulverized into a powder.
3. Record observations of the materials before you mix them.
4. Measure out 20 mL of room temperature water and pour it into a clean test tube.
5. Place the test tube in the test tube rack and place the test tube rack on the plastic tray.
6. Plug the funnel with your finger and pour the antacid tablet from the bag, through the funnel
7. Hold the funnel over the test tube, then quickly move your finger so that all of the powder drops into the water.
8. Record observations.
9. Allow the test tube to sit in the test tube rack for a minimum of three minutes (more time is better).
10. Record observations of the mixture after it has rested.
11. Wash your test tube and place it upside down in the rack to dry.
12. Clean your experiment area.
13. Tidy up all of your other supplies, leaving no mess for the next group.

Grade 7 Mixtures Lab Report

Station 4 – Pepper and Water

You will need the following items at this station:

- Beaker with Water
- Beaker with Pepper
- Test Tube Rack
- Test Tube
- Funnel
- Rubber Stopper
- Graduated Cylinder
- Stir Stick
- 2 mL Scoop



Please follow the following instructions to complete this station:

1. Record observations of the materials before you mix them.
2. Measure out 20 mL of room temperature water and pour it into a clean test tube.
3. Place the test tube in the test tube rack.
4. Using the measuring spoon and the funnel, add 2 mL of pepper to the test tube.
5. Record observations of the mixture before you shake it.
6. Put the stopper in the test tube, holding it with your thumb, turn the tube upside down, and shake it.
7. Record what you observe immediately after you are done shaking the mixture.
8. Allow the test tube to sit in the test tube rack for a minimum of three minutes (more time is better).
9. Record observations of the mixture after it has rested.
10. Wash your test tube and place it upside down in the rack to dry.
11. Tidy up all of your other supplies, leaving no mess for the next group.

Grade 7 Mixtures Lab Report

Station S – Salt and Water

You will need the following items at this station:

- Beaker with Water
- Beaker with Salt
- Test Tube Rack
- Test Tube
- Funnel
- Rubber Stopper
- Graduated Cylinder
- Stir Stick
- 2 mL Scoop



Please follow the following instructions to complete this station:

1. Record observations of the materials before you mix them.
2. Measure out 20 mL of room temperature water and pour it into a clean test tube.
3. Place the test tube in the test tube rack.
4. Using the measuring spoon and the funnel, add 2 mL of salt to the test tube.
5. Record observations of the mixture before you shake it.
6. Put the stopper in the test tube, holding it with your thumb, turn the tube upside down, and shake it.
7. Record what you observe immediately after you are done shaking the mixture.
8. Allow the test tube to sit in the test tube rack for a minimum of three minutes (more time is better).
9. Record observations of the mixture after it has rested.
10. Wash your test tube and place it upside down in the rack to dry.
11. Tidy up all of your other supplies, leaving no mess for the next group.

Grade 7 Mixtures Lab Report

Station 6 – Hot Chocolate in Hot and Cold Water

You will need the following items at this station:

- Beaker with Cold Water
- Beaker with Hot Water
- Beaker with Hot Chocolate Powder
- Test Tube Rack
- Test Tubes (2)
- Funnels (2)
- Rubber Stoppers (2)
- Graduated Cylinder
- Stir Sticks (2)
- 2 mL Scoops (2)
- Hot Mitt



Please follow the following instructions to complete this station:

1. Record observations of the materials before you mix them.
2. Measure out 20 mL of cold water and pour it into a clean test tube.
3. Measure out 20 mL of hot water and pour it into a clean test tube.
*Use the hot mitt when handling the hot water.
4. Place the test tubes in the test tube rack.
5. Using the measuring spoons and the funnels, add 2 mL of hot chocolate powder to both of the test tubes at the same time.
6. Record observations of the mixtures before you shake them.
7. Put the stoppers in the test tubes, holding them with your thumbs, turn the tubes upside down, and shake them.
8. Record what you observe immediately after you are done shaking the mixtures.
9. Allow the test tubes to sit in the test tube rack for a minimum of three minutes (more time is better).
10. Record observations of the mixtures after they have rested.
11. Wash your test tubes and place them upside down in the rack to dry.
12. Tidy up all of your other supplies, leaving no mess for the next group.

Grade 7 Mixtures Lab Report

Station 7 – Juice Crystals in Hot and Cold Water – No Shaking

You will need the following items at this station:

- Beaker with Cold Water
- Beaker with Hot Water
- Beaker with Juice Crystals
- Test Tube Rack
- Test Tubes (2)
- Funnels (2)
- Graduated Cylinder
- 2 mL Scoops (2)
- Hot Mitt



Please follow the following instructions to complete this station:

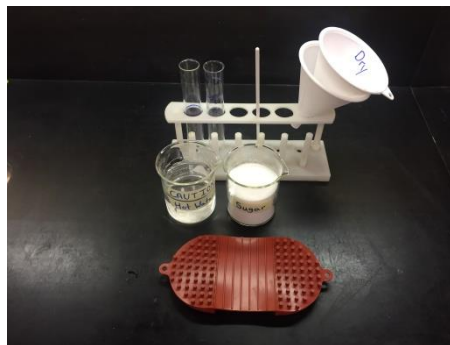
1. Record observations of the materials before you mix them.
2. Measure out 20 mL of cold water and pour it into a clean test tube.
3. Measure out 20 mL of hot water and pour it into a clean test tube.
*Use the hot mitt when handling the hot water.
4. Place the test tube in the test tube rack.
5. Using the measuring spoons and the funnels, add 2 mL of juice crystals to both of the test tubes at the same time.
6. Record observations of the mixtures.
7. Do not shake the mixtures.
8. Allow the test tubes to sit in the test tube rack for a minimum of three minutes (more time is better).
9. Record observations of the mixtures after they have rested.
10. Wash your test tubes and place them upside down in the rack to dry.
11. Tidy up all of your other supplies, leaving no mess for the next group.

Grade 7 Mixtures Lab Report

Station 8 – Half a Test Tube of Sugar and Half a Test Tube of Water

You will need the following items at this station:

- Beaker with Hot Water
- Beaker with Sugar
- Test Tube Rack
- Test Tubes (2 – labelled with half-way marks)
- Funnels (2 – one labelled “Dry”, one labelled “Wet”)
- Rubber Stopper
- Stir Stick
- Hot Mitt



Please follow the following instructions to complete this station:

1. Record observations of the materials before you mix them.
2. Using the “wet” funnel pour hot water into a clean test tube up to the half way line.
*Use the hot mitt when handling the hot water.
3. Place the test tube in the test tube rack.
4. Using the “dry” funnel pour sugar into a clean test tube up to the half way line.
5. Using the “dry” funnel combine the two substances, pouring the sugar into the water. Do not get the funnel tip wet.
6. Record observations of the mixture before you shake it.
7. Put the stopper in the test tube, holding it with your thumb, turn the tube upside down, and shake it.
8. Record what you observe immediately after you are done shaking the mixture.
9. Allow the test tube to sit in the test tube rack for a minimum of three minutes (more time is better).
10. Record observations of the mixture after it has rested.
11. Wash your test tube and place it upside down in the rack to dry.
12. Tidy up all of your other supplies, leaving no mess for the next group.