

Science Safety Agreement

Student - I will:

1. Follow all written and oral instructions given by the teacher.
2. Ask questions, or state concerns before beginning a lab procedure.
3. Behave in a manner that will ensure the health and safety of me and others in the laboratory or classroom at all times.
4. Use protective devices for my eyes, face, hands, body and clothing during laboratory activities.
5. Know the location and use of first aid and fire extinguishing equipment.
6. Refrain from eating, drinking, chewing gum or applying cosmetics in the laboratory.
7. Keep my work area clean and free of clutter during lab class.

I understand and realize that many accidents are caused by carelessness and being in a hurry. I will come to class prepared to be responsible so that the safety and welfare of me and others is not jeopardized.

I have read the set of written science safety rules prepared by my teacher and agree to follow these and any other rules.

Date _____ Student _____

Date _____ Parent/Guardian _____

In case of accident or emergency contact:

Name: _____ Phone # _____

Name: _____ Phone # _____

Please list any known allergies or health problems: (If additional space is needed, please use the back of this sheet.): _____

Contact lenses should not be worn in the laboratory as certain chemical fumes or small particulate may become lodged under the lens. Please be aware of the slight increase in the risk of eye damage for contact wearers as compared to students in similar situations without contact lenses. All students are required to wear goggles during procedures which involve the use of chemicals, dissection or projectiles.

I _____ (Parent/Guardian) have read the above and will give my permission for, _____ (student) to wear contact lenses (with goggles) in science lab.

Parent and Student Responsibilities

Students must know and follow the science safety rules and sign the science safety agreement before participating in any science labs. Parents must read and sign the science safety agreement acknowledging the need for their child to follow the safety rules and procedures as set out by the contract.

Both parents and students acknowledge that if the student and/or parent refuses to sign the science safety agreement or the student subsequently repeatedly refuses to follow the science safety rules and procedures, the student will be banned from participation in the science labs. The parents and students acknowledge that lack of participation in the assigned science labs will reduce the student's grade as determined by the teacher.

Science Safety Tips

The Texas Essential Knowledge and Skills require students to understand and do science. Students must not only learn content, they must understand the processes associated with science, including observation, model building, and inquiry. These science skills can best be understood through active learning practiced in the science classroom as well as in field and laboratory experiences. As we require students to carry out investigations, we must be aware of their safety.

10 Steps a Teacher Can Take to Prove He/She is Serious About Safety

1. Early in the school year establish a contractual relationship with the students. Have a Safety Contract signed by both the student and the parents.
2. Every time you discuss safety in the classroom record in your lesson plan what was discussed.
3. Because students tend to be visually oriented, post safety rules and, if possible, display safety posters.
4. Maintain a firm goggle policy. Allow no exceptions.
5. Label all materials and equipment. When using chemicals, make sure the containers are labeled with the correct name, formula, and concentration.
6. Maintain order and discipline at all times.
7. Maintain a clutter free classroom. Clutter is always a safety issue and it cost nothing to correct.
8. Have all needed supplies and equipment ready for use prior starting any investigation.
9. Be alert to potential problems, and have an action plan ready.
10. Monitor-Monitor-Monitor

Student Science Safety Rules

1. Follow the teachers written and oral instructions.
Ask questions if you do not understand what to do.
2. Do not taste, eat, drink, or inhale anything used in science activities unless the teacher tells you to.
3. Keep your hands away from your face, eyes, and mouth during science activities. Wash your hands after using materials or chemicals.
4. Always wear goggles when chemicals, glass containers, or heat is being used in the science activity.
5. Any experiments you want to try on your own must be approved by the teacher.
6. Tell the teacher if you see something/someone being unsafe.
7. Tell the teacher if you have an accident or an injury.
8. Know the class emergency plan.

Student Science Safety Contract

1. I will follow the teacher's written and oral instructions. I will ask questions if I do not understand what to do.
2. I will not taste, eat, drink, or inhale anything used in science activities unless the teacher tells me to.
3. I will keep my hands away from my face, eyes, and mouth during science activities. I will wash my hands after using materials or chemicals.
4. I will always wear goggles when chemicals, glass containers, or heat is being used in the science activity.
5. For any experiments I want to try on my own, I will ask permission from the teacher.
6. I will tell the teacher if I see something/someone being unsafe.
7. I will tell the teacher if I have an accident or injury.
8. I know the class emergency plan.

Student
signature _____ Date _____

Dear Parents,

I feel that you should be informed regarding my effort to create and maintain a safe science classroom/laboratory environment. Your signature indicates that you have read the contract, are aware of my measures to insure safety of your student, and will instruct them to uphold their agreement to follow these rules.

Teacher
signature _____ Date _____

Parent
signature _____ Date _____

Science Safety Quiz

1. If you spill something you should . . .
 - A. Leave it for the next class
 - B. Keep doing your lab and clean it up later
 - C. Clean it up immediately and tell the teacher
 - D. Ignore it
2. If you get a chemical on your skin you should . . .
 - A. Ignore it
 - B. Wipe it off on your clothes
 - C. Run around screaming
 - D. Rinse it off with cool water for 15 minutes and tell the teacher
3. Before heating glassware, make sure it is . . .
 - A. Thoroughly dry
 - B. Broken
 - C. Not cracked or broken
 - D. Dirty
4. To dispose of chemicals after a lab, you should . . .
 - A. Drink them
 - B. Pour them down the sink
 - C. Follow your teacher's instructions
 - D. Put them in the trash
5. After handling an animal or chemicals in the lab you should . . .
 - A. Eat your lunch
 - B. Put it in the sink
 - C. Wash your hands
 - D. Recite the emergency plan
6. When working with chemicals, heat, or glassware, always wear . . .
 - A. Safety goggles
 - B. Lab apron
 - C. Gloves
 - D. Long sleeves
7. During labs a person with long hair should . . .
 - A. Wear a hat
 - B. Tie it back
 - C. Bring a note from home
 - D. Not do the lab
8. To test the odor of fumes you should . . .
 - A. Inhale the fumes directly
 - B. Gently wave (waft) the fumes toward your nose
 - C. Heat the substance before smelling it
 - D. Mix the substance with water
9. When working with a hot container you should . . .
 - A. Use tongs or gloves to pick it up
 - B. Grab it with your bare hands
 - C. Blow on it until it cools
 - D. Move it with the power of your mind
10. Things that can cause accidents in a science lab are . . .
 - A. Students playing around
 - B. Students not following directions
 - C. Students experimenting on their own without permission
 - D. All of these

Student Safety Science Rules

Reglas de Seguridad para Alumnos de Ciencia

1. Sigue la instrucciones escritas y orales del maestro.
Haz preguntas si tú no entiendes lo que debes hacer.
2. No pruebes, comas, tomes, o respires ninguna cosa usada en las actividades de ciencia a menos que el maestro te diga que lo hagas.
3. Mantiene tus manos lejos de tu cara, ojos, y boca durante las actividades de ciencia. Lávate las manos después de usar materiales o químicos.
4. Siempre usa los lentes protectores cuando los químicos, recipientes de vidrio o calor es usado en la actividad de ciencia.
5. Cualquier experimento que tú quieras hacer por tu cuenta debe ser aprobado por el maestro.
6. Dile al maestro si ves algo o a alguien no tener seguridad.
7. Dile al maestro sí tu tienes un accidente o una herida.
8. Conoce el plan de emergencia de la clase.

Student Science Safety Contract

Contrato de Seguridad para Alumnos de Ciencia

1. Yo seguiré las instrucciones orales y escritas del maestro. Yo preguntaré si yo no entiendo lo que debo hacer.
2. Yo no probaré, comeré, tomaré o respiraré nada de lo que usamos en las actividades de ciencia a menos que el maestro me diga que lo haga.
3. Yo mantendré mis manos lejos de mi cara, mis ojos, y mi boca durante las actividades de ciencia. Yo me lavaré mis manos después de usar los materiales o los químicos.
4. Yo siempre usaré lentes protectores cuando se usen químicos, botellas de vidrio, o calor en una actividad de ciencia.
5. Para cualquier experimento que yo haga por mi cuenta, yo pediré permiso del maestro.
6. Yo le diré al maestro si yo veo algo o a alguien no tener seguridad.
7. Yo le diré al maestro si yo tengo un accidente o herida.
8. Conoce el plan de emergencia de la clase.

Firma del
alumno _____ Fecha _____

Estimados padres,

Yo siento que ustedes deben ser informados de mi esfuerzo de crear y mantener un ambiente seguro en el salón de clase/laboratorio. Su firma indica que usted ha leído el contrato y que está enterado de mis medidas para asegurar la seguridad de su alumno y le pedirá que mantenga su acuerdo de seguir estas reglas.

Firma del
maestro _____ Fecha _____

Firma del
padre _____ Fecha _____

Prueba de Seguridad en ciencia

- Si tiras algo tú debes . . .
 - Dejarlo para la siguiente clase
 - Seguir trabajando con tú laboratorio y limpiarlo despues
 - Limpiarlo inmediatamente y decirle al maestro
 - Ignorarlo
- Si te caye un quemíco en la piel debes . . .
 - Ignorarlo
 - Limpiar tu ropa
 - Correr y gritas
 - Enjuagarte con agua fresca por 15 minutos y decirle al maestro
- Antes de calentar vidrio, asegurate que los vapores a tu nariz es/esta . . .
 - Completamente seco
 - Quebrado
 - No estrellado o quebrado
 - Sucio
- Para tirar los químicos después de un laboratorio, tu debes. . .
 - tómarlos
 - tírarlos por el lavado
 - Seguir las instrucciones del maestro
 - Ponerlos en la basura
- Después de manegar un animal o químico en el laborario son . . .
 - Comer tu lonche
 - Ponerlo en el lavado
 - Lávarte las manos
 - Recital el plan de emergencia
- Cuando están trabajando con químicas, calor, o vidrio siempre usa...
 - Lentes de seguridad
 - Delantal de laboratorio
 - Guantes
 - Mangas largas
- Durante laboratorios una persona de cabello largo
 - Usar un sombrero
 - Recogerlo hacia atrás
 - Traer una nota de casa
 - No hacer el laboratorio
- Para probar el olor de los vapores debes...
 - Inhalar los vapores directamente
 - Con cuidado y con la mano acercar
 - Calentar la substancia antes de olerla
 - Mezcla la sustancia con agua
- Cuando trabajan con un recipiente caliente deben. . .
 - Usar tenazas o guantes para recogerlo
 - Agarrarlo con las manos
 - Soplarle hasta que se refresque
 - Moverlo con el poder de la mente
- Cosas que pueden causar accidentes en el laboratorio . . .
 - Alumnos jugando
 - Alumnos que no siguen las instrucciones
 - Alumnos que hacen experimentos por su cuenta y sin permiso
 - Todos estos