UNIT 1	Lesson A Lab Safety	1 Day
Lab Safety is not included in a Benchmark. It is important and relevant for everything we do in Science		**None**

ESSENTIAL CONTENT

LEARNING TARGETS:

- I know what behaviors are appropriate for Science Investigations.
- I know what safety equipment is appropriate for various Science Investigations.
- I understand why it is important to follow all procedures given when doing a Science Investigation.
- I know what to do when there is an accident during Science Investigations.

ESSENTIAL QUESTIONS:

- How does each person's behavior during Science Investigations keep all involved safe?
- How does using proper safety equipment during Science Investigations keep all involved safe?
- Why is it important to understand all procedures, including what to do when an accident occurs?

HIGHER ORDER QUESTIONS:

1. Why is it important for even professional scientists to review and update safety procedures and equipment frequently?

ALIGNED VOCABULARY:

- Safety apparel
- Unauthorized chemicals
- Unauthorized experiments
- Lab bench

KEY IDEAS:

- Be sure to <u>reiterate</u> throughout the discussion that all accidents get immediately reported to you/the classroom instructor.
- Go through **the entire** the 6-12 Student Laboratory Contract with students (front and back)
  - Some items may not be relevant to your classroom (ie having students dilute acid, that would be done by the teacher should it be necessary). Still, include these in your discussion.
- Highlight specifics to your classroom
  - Do you have safety equipment such as a fire blanket, eye wash station, shower? If so, where are these and how are these used properly?

	▪ Reiterate that all accidents get immediately reported to you/the classroom instructor. o What safety apparel (if any) are located in your room. (Gloves, aprons, safety glasses/goggles) o What are the evacuation procedures o How/where/when will students be able to wash hands, clean their areas, etc. ● Go over the procedures for spills and broken items. ● Demonstrate Wafting ● Demonstrate the proper way to use any equipment you have in your classroom and frequently use. o You should review/cover this each time you have a lab investigation. *The following is a list of items that can appear on the 8th grade FSA.* **If** you have any of these items in your classroom, this would be an appropriate time to introduce these items and any safety procedures required when using these. **Most** of these items could be used as examples of why "horseplay and inappropriate behavior is not tolerated" ● Dissection equipment ● Electronic Balance ● Triple-beam balance ● Flasks ● Hot plate ● Meter Stick ● Petri Dish ● pH Sensors ● Pipettes ● Prism ● Probe ● Pullet ● Test Strips
LESSON RESOURCE	
Lab Safety Contract	
POSSIBLE STUDENT MISCONCEPTIONS *(AND CORRECTIONS)*:	

- Lab Safety and Procedures apply **only** to Scientific Experiments
  - *Lab Safety and Procedures apply at all times in your Science Classroom.*
- There is one “set” of Lab Safety Apparel (must include lab coat, gloves, wet lab goggles, mask, etc)
  - *Lab Safety Apparel is specific to the Scientific Investigation. (not all items are necessary for all investigations)*