

Safety Protocol Quiz

JMU 3-SPACE Classroom

To use this room you must pass this quiz with all questions correctly answered and all skills certified by the instructor. Please refer to the Safety Information Handout to review the material that is covered on this Quiz.

By signing this quiz the student indicates that they understand all information on the Safety Information Handout, including but not restricted to the items listed on this Quiz, and the instructor indicates that they have personally observed the student perform the certifiable skills competently.

Student name: _____

Student signature: _____ Date: _____

Instructor/witness: _____ Date: _____

Competency certifications (to be checked by the instructor)

- Student can point to areas of the machine that will be hot when in use.
 - Student uses glasses, gloves, and equipment appropriately when using the sharp spatula.
 - Student can safely remove raft material with the orange pliers.
 - Student understands how to use the curved carving tool safely and properly.
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Understanding of safety protocols (to be completed by the student)

I. The Afinia H-Series 3D printer extruder nozzle reaches temperatures of _____ degrees Celsius, which is equivalent to _____ degrees Fahrenheit.

- I understand that the temperature above is hot enough to give me a serious burn.
- I understand that tools, recently printed objects, and anything that has been in front of the Nicole heat tool can also be hot.
- I understand how to avoid hot areas and items will wear _____ when appropriate.

2. Some of the tools in the JMU 3-SPACE are sharp and can cause injury if used incorrectly.

- The most dangerous sharp tool in the room is the _____ and I pledge to always use a glove on my supporting hand when using this tool.
- I understand that the _____ is likely to break if I use it incorrectly and that I am at greater risk for injury if I do not use the tool correctly and cautiously.
- I will use caution and wear _____ when removing support material and working with sharp tools.

3. Removing support material can cause bits of models and plastic to fly through the air.

- I will wear _____ to protect my eyes from flying plastic and support material.
- I will be sure that _____ are aware when I am removing difficult support material that might fly into the air unexpectedly.
- I will make sure that _____ are cleared from any area that could be subject to flying debris.

4. The Afinia H-Series 3D printer has moving parts that can be dangerous when in operation.

- I understand that I need to keep my _____, _____, _____, and _____ away from moving parts at all times.
- Before turning off the Afinia from the back of the machine, I must first _____ by pressing and holding down the button that is located _____. I understand that failure to do this could damage the machinery or cause injury.

5. The 3D printers in this classroom use _____ plastic, which when heated can cause odors and emissions.

- If I am bothered by odors in the classroom, and especially if plastic becomes burned or overheated, then I am free to prop open the _____ or set up and turn on the _____ to further ventilate the room.
- If I find myself particularly sensitive to odors and emissions then I will remove myself from the room as necessary.

6. I agree to protect and respect the JMU 3-SPACE classroom by exercising due caution, using items correctly, and cleaning up after myself as outlined in the Safety Information Handout.

- I will never put clips on the _____ of the Afinia perf board.

- I will use the tools in the room correctly and with caution.
- I will use food or beverages sparingly and keep them away from all equipment.
- The Afinia H-Series 3D printers should be turned _____ when not in use, although the Macintosh computers should remain _____ .
- If I use the Nicole heat tool then I will unplug it immediately after finishing.
- I agree to dispose of scrap and fail plastic in the designated bins and not into the trash or recycling. (In the future we may have a filament-making machine that uses these scraps to make new rolls of filament!)
- I will close down all programs on the computer when finished, and keep all my files within my student folder that I have been given inside the Google Drive folder.
- I will rinse out any tea cup that I use! :)

7. Above all else, keep yourself safe when using the 3-SPACE classroom.

- In the case of a cut, burn, or other incident, I will file an Incident report form; these forms are located _____ .
- The classroom First Aid kit contains bandages and lotions for handling minor cuts and burns, and is located _____ .
- When coming to the JMU 3-SPACE classroom outside of class hours, I will come with another person who can help manage any emergency situations that might arise.
- JMU Emergency Police at phone number _____, if a serious emergency.
- I know that I can text or call Laura Taalman at _____ at any time if I am uncertain of how to handle a situation or have any questions, particularly about safety.

Thank you for completing the Safety Protocol Quiz!

Please make sure that you and your instructor sign the first page of this quiz.