Biogen Specific Teaching Material

Basic Principles of Safety – HVAC

Questions & Answers

1. What are the (three) main reasons for a proper ventilation system?

Basic Principles of Safety – HVAC

1. A proper ventilation system introduces outside air, maintains consistent interior air circulation, and prevents air stagnation.

2. Ventilation is the process of exchanging or substituting air in a given space so as to provide high-quality indoor air. (true or false?)

2. True

3. Apart from providing outdoor filtered air, what does a ventilation system do?

3. An HVAC system provides temperature control, oxygen replenishment, and the removal of excess moisture and/or heat.

4. Why is HVAC filtration is especially important in lab facilities?

4. HVAC filtration is especially important since it gets rid of airborne bacteria.

5. Aerodynamic filters can arrest particulates of sizes less than how many micrometres?

5. Aerodynamic filters can arrest particulates of sizes less than 1 micrometre.

6. Filter effectiveness is indicated from 1 to 17 (in Europe), whereby the lower the number, the less degree of separation of particulates there is. (true or false?)

6. True

7. Of the three kinds of HVAC systems that exist, which is the most powerful? (EPA, HEPA or ULPA?)

7. Of the three kinds of HVAC systems that exists, ULPA the most powerful.

Thank you for your attention!

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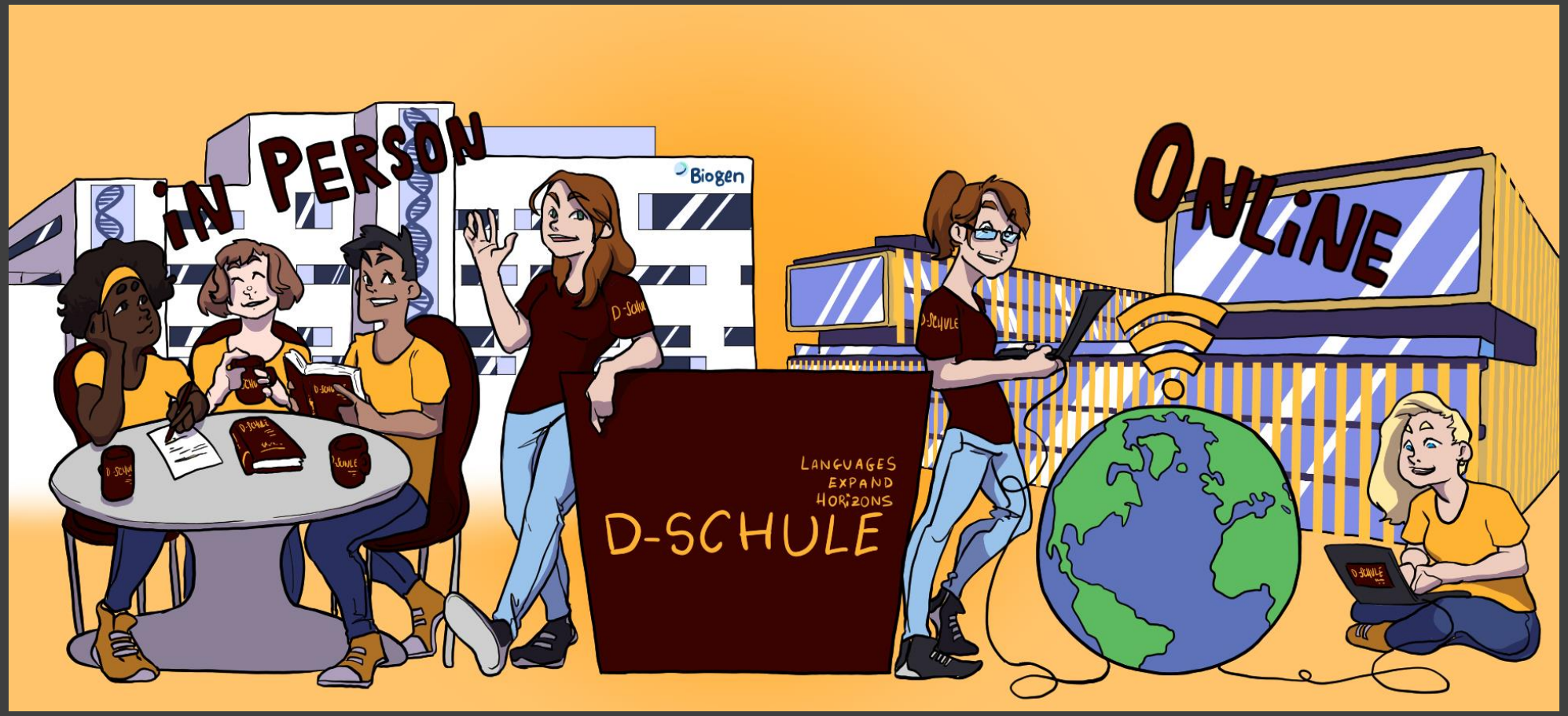

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