

Pacing Guide - Fragrance Synthesis

Part 1: Week by Week Pacing

Week 1:

- Monday - contract items: contact information, roles, expectations, behaviors and interventions
- Tuesday - contract items: pacing guide and signatures;
- Tuesday - students have submitted sample requests
- Wednesday & Thursday - students have collected their first essential oil

Week 2:

- Wednesday & Thursday - students have collected their second essential oil
- Wednesday & Thursday - students have begun researching “ingredient profile” content for their first two essential oils, including: the intermolecular forces in each organic material, the formula weights for the molecules in the organic materials (for concentration calculations), the separation techniques involved in obtaining the oils, and the reasons these oils are quality components for fragrance synthesis
- Friday - students have finished researching the above content for their first two essential oils and have begun organizing the information on their “ingredient profile” document

Week 3:

- Tuesday - students have finished organizing the “ingredient profile” content for their first two essential oils
- Wednesday & Thursday - students have collected their third essential oil
- Wednesday & Thursday - students have begun researching “ingredient profile” content for their third essential oil, including: the intermolecular forces in the organic material, the formula weights for the molecules in the organic material (for concentration calculations), the separation techniques involved in obtaining the oil, and the reasons this oil is a quality component for fragrance synthesis
- Friday - students have finished researching the above content for their third essential oil and have begun organizing the information on their “ingredient profile” document
- Friday - students begin fragrance synthesis

Week 4:

- Monday - students complete fragrance synthesis
- Monday - “Ingredient Profile” is complete except for concentration calculations that could not be completed prior to fragrance synthesis

- Monday - students have begun “Ingredient Profile” concentration calculations
- Tuesday - students have completed “Ingredient Profile”

Part 2: Digital Fabrication Progression

Description

Students will be digitally fabricating the prototype for a logo design for their perfume/cologne. Students will use the wood carver to make a small (no larger than 4 in. x 4 in.) prototype of their design. Students will make their design on wood.

Stage # 1- Design

Week 1

- Friday - students begin drawing out a design on paper or a drawing software

Week 2

- Monday - students have finished paper design
- Tuesday - students have begun drawing their design in CorelDraw: a tutorial is available in the “Resources” section below
- Wednesday & Thursday - students have finished drawing their design in CorelDraw
- Resources:
 - <https://www.youtube.com/watch?v=iKfFNNtfpMU&vl=en>
- Requirements:
 - Paper design shown to teacher for approval
- Teacher sign off for completion of this stage _____

Stage # 2- Fabrication

Week 2

- Wednesday & Thursday - students have begun the digital fabrication process using the mini CNC
- Requirements:
 - Completed CorelDraw design file emailed to teacher for approval prior to beginning mini CNC use
- Teacher sign off for completion of this stage _____

Week 4

- Tuesday - all groups should have finished digitally fabricating their final logo design.