Your curriculum overview may have more than 6 units. Please adjust the template accordingly.

SEPT OCT NOV	DEC	JAN	FEB	MAR	СН	APRIL	ΜΑΥ	JUNE
Unit 1 Ocular Structure and Lenses	Unit 2 Lensometry		Unit 3 Layout and Blo	ocking	Edgin	Unit 4 g and Mounting	_	nit 5 erification

Unit 1-	Understanding	Essential Question
CDOS Standards (Career Development and Occupational Studies): 1, 2, 3a, and 3b	 Enduring Understandings Scholars will understand that 1. The curvature of the crystalline lens of the eye focuses images on the retina of the eye 2. Changes to the cornea and crystalline lens of the eye affect the ability to see 3. Astigmatism is a natural disorder of the eye that causes myopia and hyperopia and can be corrected with "cylinder" in prescription eye glasses 4. Spherical lenses don't correct astigmatism, but correct refractive imperfections of the eye 5. Images focus through the pupil and onto the retina where the light rays are collected and sent to the brain for visual processing 6. Concave and convex lenses refract light differently 	Essential Questions Scholars will consider such questions as 1. How does my eye make an image? 2. Why can't I see like other people? 3. How do glasses help to correct my vision?

Performance Task: Scholars will demonstrate how the mammalian ocular system projects images on the back of the eye using models. Through manipulation of models, students will demonstrate to the teacher how eyes work correctly as well as how misshapen eyes project images. Scholars will use available lenses to correct vision issues, demonstrating an understanding of how light passes through concave and convex lenses.

Formative Assessments: Career Pathways programs will monitor universal employablilty skills for each student. These will be formally assessed with an Employability Profile.

Unit 2-	Understanding	Essential Question
Lensometry		
CDOS Standards (Career	Enduring Understandings	Essential Questions
Development and Occupational	Scholars will understand that	Scholars will consider such questions as
Studies):	 Spherical lenses don't correct astigmatism, but correct refractive imperfections of the eye 	1. What tools help me to make glasses to help people see?
1, 2, 3a, and 3b	 Lensometers read the "power" of a lens and allow opticians to either make or neutralize patient prescriptions 	 Why do I need to calibrate my tools? How does turning the power drum help to determine the power of a lens?
CCTC Standards (Common	3. The axis of an astigmatic lens is determined by	
Career Technical Core)	turning an axis wheel and this corresponds to an axis	
1, 2, 4, 8, 9, 11	in a patients eye	
Performance Task:		
Scholars will neutralize 5 finished prescription of the glasses	pairs of glasses, finding both the powers and the axis, and ex	trapolate the vision imperfection based on th

Formative Assessments:

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September 25,

Unit 3-	Understanding	Essential Question
Layout and Blocking		
CDOS Standards (Career	Enduring Understandings	Essential Questions
Development and Occupational	Scholars will understand that	Scholars will consider such questions as
Studies):	 Pupillary distance is unique to individuals and is important in placing optical centers of lenses in front 	Why is the optical center of a lens so important?
1, 2, 3a, and 3b	of a patients pupil	Why is decentration important?
CCTC Standards (Common	2. Decentration moves the optical center of a lens from the geometric center of a frame to its placement in	What is my pupillary distance?
CCTC Standards (Common Career Technical Core)	front of the patients pupil.	How do I prepare a lens to be cut for a specific frame?
1, 2, 4, 8, 9, 11	 Blocking places a block at the location for a patients ophthalmic needs for edging lenses 	

Performance Tasks:

Scholars will practice skills by obtaining accurate PDs of 10 Scholars, spot and dot the optical centers of 8 lenses to the doctors prescribed axis, mathematically calculate decentration for a patient and specific frame, and accurately block 8 lenses based on the calculated decentrations

Formative Assessments:

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September 25,

Unit 4-	Understanding	Essential Question
Edging & mounting		
CDOS Standards (Career	Enduring Understandings	Essential Questions
Development and Occupational	Scholars will understand that	Scholars will consider such questions as
Studies):	 Specific measurements are important to correctly cutting and placing a lens in a frame 	How much is too much?
1, 2, 3a, and 3b	2. Millimeters make a difference when cutting lenses	What safety features does an edger have?
	 Patterns are used to cut a correct shape for the lens Hand beveling creates an important safety 	How do I know if I did it right?
CCTC Standards (Common Career Technical Core)	consideration5. Safety is always important	Why aren't my glasses straight?
1, 2, 4, 8, 9, 11		
Performance Task:		
Scholars will cut, hand bevel, and	mount lenses in a frame using a Horizon II edger while obser	ving all safety procedures
Formative Assessments:		
Career Pathways programs will n Employability Profile.	nonitor universal employablilty skills for each student. Thes	e will be formally assessed with an

Unit 5-	Understanding	Essential Question
Final Verification		
CDOS Standards (Career Development and Occupational Studies): 1, 2, 3a, and 3b	 Enduring Understandings Scholars will understand that 1. The work ticket is used to keep track of the information necessary to make patients glasses 2. Accuracy in each step helps to ensure accuracy in the final product 	Essential Questions Scholars will consider such questions as How do I know if I did it right? Why aren't my glasses straight? What can I do with the skills I learned this
CCTC Standards (Common Career Technical Core) 1, 2, 4, 8, 9, 11	3. Bench alignment of frames helps to ensure proper fit	year?
Performance Task:		

Scholars will manufacture, from start to finish, a pair of glasses for a patient using tools and techniques learned throughout the course of the school year. They will check for accuracy of the final product prior to acting as an optician and dispensing the glasses to the patient

Formative Assessments:

Career Pathways programs will monitor universal employablilty skills for each student. These will be formally assessed with an Employability Profile.