Lesson Plan Template

Grade: H	igh School		Subject: Anatomy
Materials	3:		Technology Needed:
Instruction	onal		Guided Practices and Concrete Application:
Strategies Direct Guide Socrat Learni Lectur Techn integra Other Standard Develop a	instruction d practice dic Seminar ding Centers re ology ation (list) (s) und use a model to il	Peer teaching/collaboration/ cooperative learning Visuals/Graphic organizers PBL Discussion/Debate Modeling	□ Large group activity □ Hands-on □ Independent activity □ Technology integration □ Pairing/collaboration □ Imitation/Repeat/Mimic □ Simulations/Scenarios □ Other (list) Explain: Differentiation Below Proficiency:
organization of interacting systems that provide specific functions within multicellular organisms.			Approaching/Emerging Proficiency:
Objective(s) Students will be able to define fast-twitch, slow-twitch muscles, the three types of contractions, and muscle strength and endurance. Students will be able to match and describe exercises to their respective outcome for the muscles. Bloom's Taxonomy Cognitive Level:			Approaching/Emerging Proficiency: Modalities/Learning Preferences:
Classroom Management- (grouping(s), movement/transitions, etc.) Students will be paired in their lab groups for this lesson. This can also be completed over Zoom using breakout rooms.			Behavior Expectations- (systems, strategies, procedures specific to the lesson, rules and expectations, etc.)
Minutes			Procedures
	Set-up/Prep:		
3	Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest /generate questions, etc.) Start with a few gifs or funniest home videos of weightlifting/ exercising. Discuss initial thoughts about the movements people are performing and how they might need to improve the exercises.		
10	Explain: (concept	ts, procedures, vocabula	ry, etc.)
	isometric/eccentric before students bre Ask students to sur Have students defin	e/concentric contractions. eak into groups to complemmarize what is the difference the 3 types of contractions.	rence between slow and fast-twitch muscles.

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of high weight where you are engaging the type 1 muscles that specialize in short bursts of exercise. This can also be attributed to anaerobic exercise.

Muscle endurance is the ability to repeatedly exert force against a form of resistance. This is attributed to long reps of less weight and engages aerobic exercise.

The learning is mostly student driven and will allow time for debriefing when everyone has completed the assignment.

Explore: (independent, concreate practice/application with relevant learning task -connections from content to real-life experiences, reflective questions- probing or clarifying questions)

Students will identify which exercises stimulate the fast twitch muscles and which are slow twitch exercises. They will also identify if the lifts are for endurance or strength purposes, and whether they are concentric, eccentric, or isometric muscle contractions where applicable. They will then give their reasoning behind each answer.

The students will be given a worksheet where they will identify each of the exercises under the above criteria.

Fast twitch muscles (quick movements for improved strength)

Box jumps: 6in 2x15 single leg, 8in 2x15 single leg, 12in 2x20 double leg

Depth jumps: 12in box drop to squat and jump straight up 3x8

Sprint-jog intervals around the track (sprint 50m, jog 50m) repeat for 1 mile before resting

for 2 minutes, complete 2 miles

Slow twitch muscles (aerobic exercises to improve endurance)

20-minute bike ride

30-minute jog (65% max speed) Bench press: 3x12 50% max

Squat press: 2x15 50% max

Endurance exercises (above 12 lighter weight get into rhythm)

Dumbbell lunges: 5x15 each leg

Pushups: 3x15 Sit-ups: 2x25

Strength exercises (5-12 with heavy weight)

Plank: 3x45 sec

Bicep curls: 3x8 medium wght Front row: 3x10 medium wght Glute raise: 3x5 single leg, each leg

5 Review (wrap up and transition to next activity):

Debrief worksheet and discuss its tie back to previous lessons and how we will be going forward in

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the unit.	
what did you find interesting about this w	vorksheet?
Any answers you are still unsure of?	
Formative Assessment: (linked to objectives)	Summative Assessment (linked back to objectives)
Progress monitoring throughout lesson-	End of lesson:
clarifying questions, check-	Completed worksheet and debrief
in strategies, etc.	
	If applicable- overall unit, chapter, concept, etc.:
Consideration for Back-up Plan:	
D. fl. 42 (XVII 4 4 119 XVII 4 -12 1 41 44 - 1	ats loops? How do you know? What shanges would you

Reflection (What went well? What did the students learn? How do you know? What changes would you make?):

Breaking the students into their lab groups worked great for small groups. The students were actively engaged in completing the worksheet, but none of the groups were able to complete it due to the shortened class period. They also asked great questions about 1 exercise containing more than 1 form of contraction.

I would make sure the students and I are clear on the types of slow and fast- twitch muscles and my expectations for that in this worksheet. The short review is very important for students' memory and learning.