

**Table 2.** Structured Codes Sorted by Device (white for Oculus GO, grey for Vive).

Question	Code	# of Lines	Code Example	Fleiss Kappa	
1. What did you like best about your virtual field trip to the Reedsville/Bald Eagle formations?	Outside the classroom	4	I enjoyed being in the space without actually having to travel there.	0.92	
	Fun	2	It was a cool rock formation.		
	Content interaction	13	I liked the 360 view and the ability.		
	Integrated media	7	The TA guided you through it while pointing out important information.		
	Elevated view	4	I liked how I could see the formations from an elevated view.	0.94	
	Measurement	1	The measurements were very easy to take and I didn't actually need to write anything down which was convenient.		
	Presence	2	The initial impressions of putting on a VR Headset and the diagrams within the virtual space.		
	Convenience	6	I didn't actually have to go to the field site and that it could be completed in less time.		
	Fun	4	It was cool to experience new tech.		
	Content interaction	18	The guided notes explaining how to do each part of the lab.		0.90
	Integrated media	8	Being able to hear the instructor clearly and having examples of what he was talking about.		
	Elevated view	5	The elevated view, it felt like I was flying.	0.79	
	Measurement	1	I liked the measuring mechanic.		
	Presence	7	It was really realistic, felt as if I was actually there.		
2. What did you like least about your virtual field trip to the Reedsville/Bald Eagle formations?	Image quality	9	I didn't like how the images were not very high in quality.	0.94	
	Discomfort	3	I have a headache after and eyes are straining.		
	System limitations	7	I did not like that you couldn't go back and remeasure.		
	Image quality	8	The rocks were blurry in some spots.	0.82	
	Discomfort	8	Staring at the screen made me a bit nauseous.		
	System limitations	6	Cannot take notes and pictures while doing the VR.		
3. What benefits do you think there are from using virtual field trips instead of actual field trips?	Accessibility	6	If it isn't possible to go to the actual field site, the virtual trip would allow students to still experience the field trip.	0.75	
	Focused attention	5	More streamlined approach to the lab makes it easier to learn exactly what we need to learn.		
	Convenience	10	We didn't have to drive all the way out there.		
	Accessibility	2	I think virtual field is a great option in case of rain.	0.90	
	Focused attention	9	Abstract concepts can be made real and students can be transported anywhere instantly.		
	Convenience	13	There are no transportation costs and it is much easier to fit into a schedule.		
4. What would you change about your virtual field trip experience to enhance it for future students?	Image quality	7	Quality and clarity of the site and pictures from the examples involved.	0.75	
	Comfort	1	If there was a way to alter the technology so that students don't feel so sick that would be very beneficial.		
	Interaction	9	I would want to see things more up close and at different angles.		
	Image quality	8	Better graphics the screen was blurry.	0.75	
	Comfort	3	Give a warning before launching a student into the air or jolting them forward.		
	Interaction	12	Allow some way to view the formations while also being able to take notes.		