Appendix

Samples of TCs' STEM Curriculum Resources Websites Showcasing Varied Levels of DI

Level	Content Differentiation	Process Differentiation	Product Differentiation
Exemplary	• Culturally relevant content, e.g., how diets are influenced by culture and SES • Extending learning through a group research activity about the four macromolecules • Discussed how equity affects health (diabetes in urbanized areas) • Research about the historical discoveries: contributions of scientists of colour and women • Familiarized ELLs with key-terms before the start of content explanation	• Included variety of active, student-centered teaching strategies: simulations about diffusion, case studies, biochemistry memes, hands-on building macromolecules, etc. • Included learning through multimodalities: videos, songs, discussion, graphic organizers, pictures, etc. • Student choice in activities • Planned independent thinking activities (e.g., KWL charts) and group work (e.g., discussions or group activities)	• Different forms of assessments for students: provided through a list of suggestions, with other ideas are open to consideration. For example, options to present research on organelle function include a rap, poem, song, skit, poster, graphic organizer... • Included in the lesson plans varied forms of assessment *for* learning, assessment *as* learning, and assessment *of* learning • Rubrics included within each lesson
Proficient	• The plant adaptations lesson plan included biomes from across the globe • Included a lesson where students research different Indigenous communities and their contributions to ecosystem sustainability	• Included visuals, videos, tables, infographics, apps, charts, labs, and hands-on activities • Gave students choice on how they would like to organize their research for example, mind map, table chart, list, etc.	• Assessments provide students with choices and autonomy: Students can choose the format of delivery of their work. Planned a few assessment strategies for and as learning across all lessons
Novice	• Clarity of expectations, learning goals, and success criteria	• Variety of formats (e.g., live demos, videos, group work, whiteboard games, slideshows, animations, etc.)	• Varying the level of questions in the provided worksheets (knowledge based, application, and analysis)