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| **TCA Daily Lesson Planner** |
| **Lesson #****32** | Course Code | MCV4U | Date | 16/10 | Teacher | BAHAR |
| **Period A** |  |
| **Warm up**  | 20  | Quiz, Q&A, Student Report, Student Marking, Debriefing, Check home work etc. |
| **Record Attendance** | Notes: attendance and concerns regarding specific student |
| **Lesson Intro**. | 10  | Specific expectation (s) | C1.2, C1.3, C1.4 |
| Learning goals | By the end of this period, students will be able to:- The students should be able to successfully answer and explain any questions from section taught in the class (AAL/Conversation)- The students should be able to successfully solve and represent any assigned questions from the lesson taught (AAL/Observation) |
| Success Criteria | By the end of this period students should: - Know or understand the concepts of vectors as forces and velocity- Use critical thinking to create, solve and analyze strategies for solving problems of resultant velocity and component of forces- Communicate with appropriate notations for reasoning about the equilibrium in a system involving several forces- Apply connections between everything that was learned and problem arising in the real world problem |
| **Lesson** | 40  | Learning Activities | Problem Solving DiscussionFeedback |
| Resources | Textbook: Calculus and Vectors (Nelson) |
| Assessment and Evaluation | Assigned Textbook questions: Pg#362 3,5,7-12 Pg#369 3-9 |
| **Application** | 20 |  |
| **Period B** |
| **Warm up**  |  |  |
| **Lesson Intro**. | 15 | Specific expectation | C2.4, C2.5, C2.6, C2.7, C2.8 |
| Learning goals | By the end of this lesson, students will be able to:* Use vectors to model and solve problems arising from real world applications involving velocity and force (C1.1)
* Perform the operation of the dot product on two vectors (C2.4)
* Determine properties of the dot product (C2.5)
* Determine the scalar and vector projection of a vector (C2.8)
* Perform the operation of cross product on two algebraic vectors in R3 (C2.6)
* Determine properties of the cross product (C2.7)
* Solve problems involving the dot product and cross product (C2.8)
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| Success Criteria | By the end of this period students should: - Know or understand the concepts of Dot Product and Cross Product- Use critical thinking to create, solve and analyze strategies for solving problems of the operation of cross product on two algebraic vectors in R3- Communicate with appropriate notations for reasoning about the scalar and vector projection of a vector- Apply connections between everything that was learned and problem arising in the real world problem- The students should be able to successfully answer and explain any questions from section taught in the class (AAL/Conversation)- The students should be able to successfully solve and represent any assigned questions from the lesson taught (AAL/Observation) |
| **Lesson** | 55  | Learning Activities | Problem Solving DiscussionFeedback |
| Resources | Textbook: Calculus and Vectors (Nelson) |
| Assessment and Evaluation | Assigned Text book questions: Pg#418 1,2,14,17 |
| **Application** | 20 | Student Teacher Discussion about the lesson |

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| **TEACHING STRATEGIES** |  | **TEACHING STRATEGIES** |  |
| Direct Instruction (teacher led) | x | Class activity (teacher facilitated) | x |
| Direct instruction (discussion possible) | x | Experiential learning (by doing) |  |
| Class discussion (teacher facilitated) | x | Worksheets / Surveys |  |
| Small group discussion |  | Individual or group research |  |
| Partner discussion / conferencing | x | Teacher Modeling |  |
| Conferencing: teacher and student | x | Use of Computers / Internet |  |
| Teacher reading to class |  | Use of Video or Audio |  |
| Silent individual reading |  | Role Playing |  |
| Group based reading |  | Class Presentations | x |
| Independent work (Teacher facilitated) | x | Guest Speaker / Interviews / Questions |  |
| Group Work (Teacher facilitated) |  | Field Trip |  |
| OTHER:  |  | OTHER:  |  |