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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  Discussion  Feedback | | | | |
| 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) | | | | |
| 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  Discussion  Feedback | | | | |
| 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: |  |