

Course: TTI 101
Integrated Technology,
Computer Technology
Grade: 9
Teacher: Mr. Vaughan



Courtice Secondary School
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Unit Description

In this unit, students explore the various applications of computers and communications technologies. Activities are listed sequentially from introductory to more challenging. Although activities may be independent of each other, skills developed throughout the unit continue to build one upon the another. Students apply various problem-solving strategies throughout this unit, and be given the opportunity to demonstrate abilities in five independent units, Computer Hardware, 3D Design (sketch up), Graphic Design (Photoshop and Illustrator), Web Design and the Internet, Computer Programming. During these units students will have the opportunity to become aware of career opportunities, educational programs or opportunities for cooperative education in the field of Computers. Other topics and subjects related to computers may be introduced at the discretion of the teacher and the interests of the students (Electronics, Robotics, IT, Networking, Video Game Design)

Teaching/Learning Strategies

This unit uses a variety of experiential learning strategies, including teacher-directed, group work, and co-operative learning strategies. The teacher provides students with the resources necessary to complete each task, including acting as a resource to the task. Students will be expected to work independently and in groups in problem solving, hands-on fabricating, following design procedures, report writing, brainstorming, and making classroom presentations. Assessment methods may include: standardized tests such as classroom tests or examinations, personal communication assessment (for example, instructional questions and answers), the application of student-generated project assessment criteria and the application of performance assessments. Performance assessments may involve projects, skills demonstrations, conferences, classroom discussions, journals or log books. A sample rubric for assessment included in each activity may be used by the teacher and/or students.

Resources

All resources required for this course will be provided in class. Additional resources for this course are frequently updated on www.MrVaughan.com and students should be encouraged to check it from home or at school for updates. They may also choose to create an account so that they can contribute to online discussions and post comments on the website.



<p>Assessment/Evaluation Techniques</p> <p><u>Paper and Pencil Tests</u></p> <ul style="list-style-type: none"> • Ongoing quiz, self/peer rubric • Final evaluation (rubric, tests) <p><u>Performance Assessment</u></p> <ul style="list-style-type: none"> • Research project • Assigned exercises • Log/journal entries • Finished product <p><u>Personal Communication</u></p> <ul style="list-style-type: none"> • Student-teacher • Teacher-group • Self/peer assessment • Daily log/journal • Ongoing verbal feedback • Critique self/peer 	<p><u>Teacher Observation</u></p> <ul style="list-style-type: none"> • Formal/informal <p><u>Reflection</u></p> <ul style="list-style-type: none"> • Self/peer assessment • Log/journal <p><u>Assessment Tools</u></p> <ul style="list-style-type: none"> • Checklists • Marking schemes • Project specification sheets • Rubrics • Anecdotal comments with suggestions for improvement
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ASSESSMENT METHODS

DIAGNOSTIC – occurs at the beginning of a term, a unit of study, or whenever information about prior learning is useful

FORMATIVE – provides ongoing feedback to the teacher during learning about the quality of learning and the effectiveness of instruction

SUMMATIVE – usually carried out at the end of a learning process (may include feedback and/or judgment)

EVALUATION

Your mark in Integrated Technologies is a combination of your 2 rotations throughout the term. Each of the two rotations adds up to 50% of your mark.

- Knowledge** **20%**
- Thinking/Inquiry** **15%**
- Communication** **20%**
- Application** **45%**