

**Interdisciplinary Topics In Science 40S**

Course Code:0140

**Grade 12****Teacher:** Mr. Reimer**Contact Information:** [mreimer@trsd.ca](mailto:mreimer@trsd.ca)

Credit Value: 1 credit

**Alonsa School****Semester One****Room Science Room**

Welcome to Interdisciplinary Topics In Science 40S! Please read this outline carefully, sign it and hand it back to the teacher.

**Course Description:** Interdisciplinary Topics In Science 40S curriculum is concerned both with fostering the development of various skills and with effecting a change of attitude. A strong focus of this curriculum is to link science to the experiential life of the student. Unit Development in Current Topics in the Sciences is driven by learning outcomes and process. Organizing units around a problem or theme will generally present information in the context of real-world applications. Students will be presented with opportunities to uncover concepts from each of the sciences during the year in a substantial way and to make coherent connections between them. The flexibility of Current Topics in the Sciences allows for meaningful and engaging interdisciplinary units based on current scientific issues and developments.

**Goals for Students:**

- encourage students at all levels to develop a rational sense of wonder and curiosity about scientific and technological endeavors;
- enable students to use science and technology to acquire new knowledge and solve problems, so they may improve the quality of their own lives and the lives of others;
- prepare students to critically address science-related societal, economic, ethical, and environmental issues;
- provide students with a proficiency in science that creates opportunities for them to pursue progressively higher levels of advanced study, preparing them for science-related occupations, and engaging them in science-related activities appropriate to their interests and abilities; and
- develop in students of varying aptitudes and interests a knowledge of the wide variety of careers related to science, technology, and support for the natural and human environments.

The following topics are proposed to help obtain the skills and accomplish these goals mentioned above.

<ul style="list-style-type: none"> <li>• Are We Alone in the Universe?</li> <li>• Cloning: What Can We Do and What Should We Do?</li> <li>• Forensic Sciences: Crime Scene Investigation</li> <li>• Where Will the Next Earthquake Occur?</li> <li>• The Evolution of the Human Species: Where Did We Come From?</li> <li>• Global Warming: Fact or Fiction?</li> <li>• The “Snowball Earth”: Has the Entire Planet Frozen over in the Past?</li> <li>• Recycling: Is It Working?</li> <li>• Sports Science: How Do Science and Technology Aid the Athlete?</li> <li>• Transportation in the Future: Getting From A to B</li> <li>• Water: Will We Ever Run Out? Manitoba Education and Advanced Learning</li> </ul>	<ul style="list-style-type: none"> <li>• Biotechnology: The Good, the Bad, and the Unknown</li> <li>• What in the World Is Climate Change?</li> <li>• Energy Today and Tomorrow: Can We Avoid Large-Scale Blackouts?</li> <li>• Where Are We Going?</li> <li>• The Human Endeavour in Space • Medical Technologies: What’s New?</li> <li>• Great Geological Controversies: Expanded Earth or Plate Tectonics?</li> <li>• Is the World Doing Enough to Reduce Pollution?</li> <li>• Science of Music: Why Do We Like It So Much?</li> <li>• Stem-Cell Research: Ideas and Issues</li> <li>• Technologies of the Future: What Was Predicted in 1950 and Where Are We Now?</li> <li>• Causes and Consequences of Wildfires</li> <li>• Human Population Cycles: Is There Room for Us All</li> </ul>
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Students may be asked to bring materials from home for projects and activities.

### Mark Breakdown:

Course Work	70%
Final Assessment	30%

Class Attendance: It is important for students to attend this class on a regular basis as class discussions may appear on assessment pieces. Should a student have to miss class, he/she has the responsibility to find out from a classmate what was discussed in class and get himself/herself caught up with notes/questions/tests or quizzes.

Students who miss class will be able to find the day's lesson/assignment on Microsoft Teams.

Assessment: Each unit of study will have several formative assessments and at least one summative assessment. The formative assessments will help students demonstrate their knowledge and understanding on the variety of topics/outcomes taught in each unit. It is expected that assessments be completed by the assigned due date. Students who miss the summative assessment at the end of the unit will complete it on the day they return to school.

Incomplete and Late Work: Students are expected to complete their work on time and to the best of their ability. Late or incomplete assignments will be given a mark of zero. When the student has completed the assignment, the mark of zero will be changed. At the teacher's discretion, for every day an assignment is late, a maximum of 5% may be deducted. After two weeks or at the start of a new unit, if the assignment has still not been turned in, the student will receive a mark of zero.

Rewrites: Students who do poorly on an assessment may request to rewrite an alternative assessment. Students will have one week after the completion of a unit to request to rewrite an assessment. Students will then have one week to complete the alternate assessment. Students who do not complete the alternate assessment on time will keep their original mark. Rewritten summative assessments must be completed within one week after the original has been returned. Summative assessment rewrites will be completed over the lunch hour. Students are permitted to rewrite a total of 3 assessments throughout the semester.

Homework: Assignments not completed during regular scheduled class are considered to be homework. These formal assessments are due on the assigned due date.

Lunch Hour (12:05-1:00): Students may also come at lunch time (12:05-1:00), eat lunch, and get extra help on assignments or get caught up on work they have missed.

Academic Dishonesty: Academic dishonesty such as plagiarism, cheating, or copying work is a severe offence and will result in harsh penalties. First offence will be a choice of either a zero on the assessment or redo the assessment at lunch time. A letter will also be sent home to your parents/guardians at this time. Second offence will be an automatic zero, with a referral to administration, as well as a letter sent home to parents/guardians.

Students and Parents/Guardians: Please sign below to indicate that you have read and understand the course outline. If you have any questions or comments, please include them on the space below. If, at any time during the school year, you have questions or concerns, please call the school and leave a message. I will get back to you as soon as possible.

Sincerely,  
Mr. Reimer

Student signature: \_\_\_\_\_

Parent/ Parent/Guardian Signature: \_\_\_\_\_