



ISE Course Outline

Subject: English

Grade: 8

Essential Skills

- 1. Critically read and comprehend a variety of texts**
- 2. Write different types of text for a variety of audiences**
- 3. Work collaboratively to analyze a range of texts**
- 4. Articulate thoughts and ideas through public speaking**

Units

- | | |
|--|--|
| 1. A Play: <i>The Miracle Worker</i> (William Gibson) | 6. A Graphic Novel: <i>Maus</i> (Art Spiegelman) |
| 2. A Novel: <i>Wonder</i> (R.J. Palcaio) | 7. A novel: <i>The Dreamer</i> (Pam Munoz/Peter Sis) |
| 3. Poetry Unit (with Literary devices.) | 8. Short Story Writing |
| 4. A Novel in verse: <i>All the Broken Pieces</i> (Anne E. Burg) | 9. Research Paper Skills |
| 5. Poetry Writing | |

Assessments

- 1. Poetry Publication**
- 2. Essays**
- 3. Presentations**
- 4. Projects**
- 5. Written Tests**

Subject: Mathematics

Grade: 8

Essential Skills

- 1. Recognise routine problems, observe patterns, identify relationships and formulate relevant solutions**
- 2. Apply rules, process data and construct strategies to solve novel and contextual problems**
- 3. Make deductions, draw justifiable conclusions and evaluate these**
- 4. Show mathematical process in a logically sequential manner**
- 5. Show participation and effort with regards to coursework and study habits**

Units

- 1. Number**
- 2. Algebra**
- 3. Coordinate Geometry**
- 4. Geometry**
- 5. Statistics**
- 6. Probability**

Assessments

- 1. Coursework exercises**
- 2. Past paper tests**
- 3. Investigations and projects**
- 4. Spot quizzes**



Subject: Science

Grade: 8

Essential Skills

- 1. Apply and use scientific facts and concepts**
- 2. Apply and use scientific methods and techniques with precision and safety**
- 3. Construct, analyze, and evaluate scientific methods and explanations**
- 4. Apply and use appropriate methods to present scientific information**
- 5. Demonstrate the personal skills of cooperation, perseverance, and responsibility appropriate for effective scientific investigation and problem solving**

Units

- | | |
|---|--|
| 1. Ecosystems | 6. The cell and its information |
| 2. Reaction Chemistry | 7. Acids and bases |
| 3. Physical Phenomena | 8. Human biological systems II |
| 4. Human biological systems I | |
| 5. Kinetics and chemical reactions | |

Assessments

- 1. Laboratory investigations**
- 2. Written examinations**
- 3. Research papers**
- 4. Presentations**



Subject: Social Studies

Grade: 8

Essential Skills

- 1. Locate, read, and critically analyze information from a variety of sources**
- 2. Make and evaluate conclusions based on evidence**
- 3. Work collaboratively to clarify problems and generate solutions**
- 4. Articulate thoughts and ideas through public speaking**

Units

- | | |
|---|--|
| 1. Origins: Early humans & Civilization | 6. Ancient Greece |
| 2. Ancient Near East: Fertile Crescent and Mesopotamia | 7. Ancient Rome |
| 3. Ancient Egypt and Nubia | 8. Byzantine Empire and Islam |
| 4. Ancient India | 9. Early Americas Civilizations |
| 5. Ancient China | |

Assessments

- 1. Written examinations**
- 2. Research papers**
- 3. Presentations**
- 4. Projects**



Subject: French Beginners

Grade: 6 - 9

Essential Skills

- 1. Express feelings and emotions, exchange opinions**
- 2. Understand and interpret written & spoken texts on a variety of topics**
- 3. Share information and ideas to an audience (listeners or readers)**
- 4. Demonstrate an intercultural sensitivity through comparison**

Units

- | | |
|--|---|
| 1. Présentations & usages | 6. Cuisine & cuisine française |
| 2. Être & avoir | 7. Histoire & Francophonie |
| 3. Les relations & les sentiments | 8. Les verbes de modalités |
| 4. L'apparence & la description | 9. Parler au passé & au futur |
| 5. Les activités quotidiennes | 10. Loisirs, jeux & sports |

Assessments

- 1. Homework**
- 2. Interactive oral activities**
- 3. Vocabulary & grammar quizzes**
- 4. Written tasks**



Subject: French Advanced

Grade: 6 - 9

Essential Skills

- 1. Express feelings, and emotions, exchange opinions**
- 2. Understand and interpret written & spoken texts on a variety of topics**
- 3. Share information and ideas to an audience (listeners or readers)**
- 4. Demonstrate an intercultural sensitivity through comparison**

Units

- | | |
|--|-------------------------------------|
| 1. Révision des compétences | 6. Loisirs, jeux & sport |
| 2. Les verbes de modalités | 7. La France au quotidien |
| 3. Les activités quotidiennes | 8. La bande-dessinée |
| 4. Le passé composé & l'imparfait | 9. J'écris une histoire |
| 5. Le conditionnel | 10. Les régions françaises |

Assessments

- 1. Homework**
- 2. Interactive oral activities**
- 3. Vocabulary & grammar quizzes**
- 4. Written tasks**

Subject: German Beginners

Grade: 6 - 9

Essential Skills

- 1. Express feelings and emotions, exchange opinions**
- 2. Understand and interpret written and spoken texts on a variety of topics**
- 3. Share information and ideas to an audience (listeners or readers)**
- 4. Demonstrate an understanding of the target culture**
- 5. Create links with other subjects through learning a foreign language**

Units

- | | |
|--------------------------------|--------------------------------------|
| 1. Wer bist du? | 6. Klamotten kaufen |
| 2. Spiel und Spaß | 7. Pläne machen |
| 3. Komm mit nach Hause! | 8. Lies mit mir! |
| 4. Final Assessment | 9. Revision, Final Assessment |
| 5. Alles für die Schule | |

Assessments

- 1. Homework**
- 2. Class work**
- 3. Quiz**
- 4. Role play**
- 5. Test/ Final Assessment**

Subject: German Advanced

Grade: 6 - 9

Essential Skills

- 1. Express feelings and emotions, exchange opinions**
- 2. Understand and interpret written and spoken texts on a variety of topics**
- 3. Share information and ideas to an audience (listeners or readers)**
- 4. Demonstrate an understanding of the target culture**
- 5. Create links with other subjects through learning a foreign language**

Units

- | | |
|--------------------------------------|--------------------------------------|
| 1. Bei den Baumanns | 6. Gesund essen |
| 2. Bastis Plan | 7. Gute Besserung! |
| 3. Wo warst du in den Ferien? | 8. Lies mit mir! |
| 4. Final Assessment | 9. Revision, Final Assessment |
| 5. Gesund leben | |

Assessments

- 1. Homework**
- 2. Class work**
- 3. Quiz**
- 4. Role play**
- 5. Test/ Final Assessment**

Subject: Estonian (for foreigners)

Grade: 6 - 9

Essential Skills

- 1. Express feelings and emotions, exchange opinions**
- 2. Understand and interpret written and spoken texts on a variety of topics**
- 3. Share information and ideas to an audience (listeners or readers)**
- 4. Demonstrate an understanding of the target culture**

Units

- | | |
|--|--|
| 1. Introduce yourself | 6. Food, clothes and shopping |
| 2. Family | 7. Nature and weather |
| 3. Colours | 8. Home, rooms and furniture |
| 4. Numbers | 9. Body parts and health |
| 5. Time | 10. Estonica (symbols, culture etc) |
| 11. School and friends | 12. Street and town |
| 13. Countries and nationalities | 14. Free time, hobbies and activities |

PS! Units may be added according to the skills and levels of students

Assessments

- 1. Vocabulary and grammar exercises and quizzes**
- 2. Role play**
- 3. Written (creative) tasks**
- 4. Oral (speaking and listening) practice**
- 5. Tests/exams twice a year**
- 6. Homework**

Subject: Estonian (for native speakers)

Grade: 6 - 9

Essential Skills

- 5. Express feelings and emotions, exchange opinions**
- 6. Understand and interpret written and spoken texts on a variety of topics**
- 7. Share information and ideas to an audience (listeners or readers)**
- 8. Demonstrate an understanding of Estonian culture and literature**

Units

- | | |
|-------------------------------|--------------------------------------|
| 1. Grammar | 6. Folklore |
| 2. Orthography | 7. Culture and traditions |
| 3. Punctuation marks | 8. Express yourself |
| 4. Literature | 9. Communication |
| 5. Vocabulary building | 10. Actual and topical themes |

PS! Units may be added according to the skills and levels of students

Assessments

- 1. Creative writing (essays, stories, poems etc)**
- 2. Orthography and grammar exercises and quizzes**
- 3. Homework**
- 4. Role play**
- 5. Read and analyze Estonian literature**
- 6. Tests and exams (twice a year)**



Subject: Wellness

Grade: 8

Essential Skills

- 1. Know and understand concepts, principles, strategies, and tactics related to physical activity and health**
- 2. Develop and apply competent motor skills and movement patterns needed to perform a variety of physical activities**
- 3. Demonstrate general care, consideration and respect to self and others**
- 4. Demonstrate self-motivation, organization and responsible behavior**

Units

Physical Education	Health Education
1. Invasion games (soccer, basketball, frisbee, floorball)	1. Health & hygiene
2. Netgames (volleyball, badminton)	2. Physical activity & fitness
3. Track and field	3. Nutrition & weight management
4. Gymnastics	4. Personal safety
5. Electives	5. First aid

Assessments

- 1. Written examinations**
- 2. Sport-specific skill tests**
- 3. Participation in team/group**
- 4. Projects**
- 5. Presentations**



Subject: Music

Grade: 8 (1 semester)

Essential Skills

- 1. Researching**
- 2. Planning and Creating**
- 3. Performing and Presenting**
- 4. Reflecting and Evaluating**

Units

- 1. Electrophones**
- 2. World Music (North American)**
- 3. Pop and Rock Music**
- 4. Music reflections (2)**

Assessments

- 1. *Knowledge* of the art forms studied in relation to social, cultural, historical and personal contexts**
- 2. *Critical thinking* to allow students to reflect on their own and others artistic development**
- 3. *Skills* to develop an idea, theme or personal interpretation expressing and communicating students' artistic intentions**
- 4. *Engagement* to show commitment to the development of students' potential**



Subject: Visual Art

Grade: 8

Essential Skills

- 1. Researching**
- 2. Planning and Creating**
- 3. Performing and Presenting**
- 4. Reflecting and Evaluating**

Units

- 1. Graphic arts: Stencil techniques**
- 2. Painting: Abstract Art**
- 3. Self-Expression: Illustration in large format**
- 4. Graphic Design: Elements of Design**

Assessments

- 1. *Knowledge* of the art forms studied in relation to social, cultural, historical and personal contexts.**
- 2. *Critical thinking* to allow students to reflect on their own and others artistic development**
- 3. *Skills* to develop an idea, theme or personal interpretation expressing and communicating students' artistic intentions**
- 4. *Engagement* to show commitment to the development of students' potential**

Subject: Technology Design

Grade: 8

Essential Skills

- 1. Investigation: Identify problems, develop a design brief and formulate a design specification**
- 2. Designing: Generate several feasible designs that meet the design specification and evaluate these against the design specification**
- 3. Planning: Construct a plan to create their chosen product/solution that has a series of logical steps, and that makes effective use of resources and time**
- 4. Creating: Create and develop a product/solution, including tools, materials and techniques suggested during the planning phase**
- 5. Evaluating: Evaluate performance at each stage of the design cycle and suggest ways in which performance could be improved**

Units

1. Digital Image (Intermediate Level)	4. Web Design (Intermediate Level)
2. Digital Video (Intermediate Level)	5. Digital Photography (Intermediate Level)
3. Graphic Design (Intermediate Level)	6. Final Project

Assessments

- 1. Knowledge: Understand how digital content is created, modified and used**
- 2. Critical thinking: Analyze, compare and evaluate a product's functionality.**
- 3. Skills: Develop graphic and web design skills, by utilising the design cycle methodology**
- 4. Engagement: Show commitment and motivation during the design and development process.**

Subject: Information Studies

Grade: 6 - 9

Essential Skills

1. **Thinking skills:** Acquisition of knowledge, Comprehension, *Application, Analysis, Synthesis, Evaluation, Dialectical thought, Metacognition*
2. **Research skills:** *Formulating questions, Planning, Collecting data, Recording data, Organizing data, Interpreting data, Presenting research findings*
3. **Communication skills:** *Listening, Speaking, Reading, Writing, Viewing, Presenting, Non-verbal communication*
4. **Social skills:** *Accepting responsibility, Respecting others, Group decision-making, Adopting a variety of group roles*
5. **Self-management skills:** Organization, Time-management, Safety, Codes of behavior, Informed choices

Units

1. **Research;** research cycle, research strategies, research tools in school and outside schools
2. **Searching information;** the Internet, search tips and tools, Google search
3. **Evaluating information;** Wikipedia, criteria for evaluating websites, bias
4. **Academic honesty;** plagiarism, citations, tips and tool for avoiding and detecting plagiarism, citing, citation builders
5. **Digital life;** digital citizenship, safety and security

Assessments

1. **Projects**
2. **Reflections**
3. **Written assignments**
4. **Tests**
5. **Research:** application of skills into other subjects



Subject: Robotics Elective

Grade: 6 - 9

Essential Skills

- 1. Design: Detect, build and modify Lego parts, motors and sensors to create robots.**
- 2. Programming: Use NXT-G, visual programming language, to control a mobile robot.**
- 3. Problem Solving: Produce solutions to overcome problems, encountered during the design and programming of tasks.**
- 4. Creativity: Generate unique and inventive ideas to modify the design and programming of the robot.**
- 5. Teamwork: Collaborate, communicate and contribute to the team during tasks and projects.**

Units

- 1. Ethics and Robotics**
- 2. Basic Construction and Programming**
- 3. Introduction to Gears**
- 4. Movement**
- 5. Sensing**
- 6. Measurements and Synchronization**
- 7. Precise Programming**
- 8. Mobile Controlling Robot via Bluetooth**

Assessments

- 1. Knowledge: Understanding the thinking process of a programmer and basic engineering concepts**
- 2. Critical thinking: Experimenting and choosing appropriate methods, through self reflection, to apply new ideas**
- 3. Skills: Developing and applying problem solving, creativity and teamwork through tasks, projects and challenges**
- 4. Engagement: Showing self motivation and commitment during the robotics programme experience**



Subject: Handbell Ensemble Elective

Grades: 6 - 10

Essential Skills

- 1. Physical skills (eye-hand coordination, gross/fine motor skills)**
- 2. Mental skills (attention, memory, reading)**
- 3. Social skills (self esteem, cooperation, independence)**
- 4. Musical skills (rhythm, tonal, structure)**
- 5. Critical thinking skills (reflection, evaluation)**

Units

- 1. Basic Techniques**
- 2. Preparation for performances**

Assessments

- 1. *Knowledge* of the handbell music studied**
- 2. *Critical thinking* to allow students to reflect on their own and others artistic development**
- 3. *Skills* to communicate ensembles' artistic intentions**
- 4. *Engagement* to show commitment to the development of students' potential**

Subject: Drama and Theatre arts Elective

Grade: 6 - 10

Essential Skills

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|-------------------------------------|
| 1. Researching |
| 2. Planning and Creating |
| 3. Performing and Presenting |
| 4. Reflecting and Evaluating |

Units

- | | |
|--|----------------------------------|
| 1. Stage and performance skills | 6. Improvisation |
| 2. Characterization | 7. Theatre and design |
| 3. Dramatic style | 8. Theatre and technology |
| 4. Drama in movement and sound | |
| 5. The process of playmaking | |

Assessments

- | |
|---|
| 1. <i>Knowledge</i> of the art forms studied in relation to social, cultural, historical and personal contexts |
| 2. <i>Critical thinking</i> to allow students to reflect on their own and others artistic development |
| 3. <i>Skills</i> to develop an idea, theme or personal interpretation expressing and communicating students' artistic intentions |
| 4. <i>Engagement</i> to show commitment to the development of students' potential |



Subject: Visual Art Elective

Grade: 6 - 10

Essential Skills

- 1. Planning and Creating**
- 2. Presenting**
- 3. Reflecting and Evaluating**

Units

- 1. Specific topics and techniques are discussed with students and are decided upon students' interests and choices.**

Assessments

- 1. *Skills* to develop an idea, theme or personal interpretation expressing and communicating students' artistic intentions**
- 2. *Engagement* to show commitment to the development of students' potential**