Futaba Future School’s curriculum to create better well-being

5th September, 2019
Ippei Nango
Vice Principal, Fukushima Prefectural Futaba Future School
National Training Center J-VILLAGE (Hirono-town & Naraha-town, Fukushima)
The school established based on lessons learned from the OECD Tohoku School Initiatives supported by OECD

<table>
<thead>
<tr>
<th>Year</th>
<th>Initiatives</th>
<th>OECD Tohoku School</th>
<th>ISN* Phase1</th>
<th>Phase2</th>
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<tbody>
<tr>
<td>2011</td>
<td>Vision creation</td>
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<td>2019</td>
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Dialog between students at Futaba region and OECD, participation to ISN*

**Futaba Future School**

- The earthquake & Nuclear Plant Incident
- **Vision creation**
- **preparation**
- **Futaba Future High School**
- Junior HS Started

*Japan Innovative Schools Network supported by OECD

Meeting with Mr. Schleicher at OECD and Board of Education of Futaba region (February 9, 2014)
The 3rd International Forum on the Decommissioning of the First Fukushima Nuclear Power Plant
August 5, 2018
Roles of Teachers

1. To try not to manipulate students.

2. To become a bridge for connecting students with people and knowledge outside of school.

3. To support students to move forward and learn with students.
<table>
<thead>
<tr>
<th>Achievement Categories</th>
<th>No.</th>
<th>Qualification, Competency, Attitude</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Knowledge and Understanding of Social Issues</td>
<td>To acquire knowledge for understanding the changes and problems of society and the world, while also acquiring common sense and basic academic skills.</td>
<td>Gain basic knowledge on the structure of the local area and society.</td>
<td>Gain basic knowledge of the issues regarding regional revitalization and immediate problems.</td>
<td>Gain basic knowledge of the world's current problems and the environmental and energy issues pertaining to the realization of a sustainable society.</td>
<td>Deepen his/her acquired knowledge of social issues and understand them better by accumulating related information.</td>
<td>Understand social issues critically enough to apply related knowledge to the task at hand, be able explain them to other people.</td>
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<td>B</td>
<td>Usage of English</td>
<td>To learn to communicate using English.</td>
<td>Have an interest, willingness and attitude for English communication, and be able to give a brief self-introduction in English.</td>
<td>Can talk about his/her interests and the region in English.</td>
<td>Can give a scripted speech in English about his/her region and research, and answer simple questions in English.</td>
<td>Can improvise an English speech about his/her region and research and exchange opinions in English.</td>
<td>Can make a persuasive argument in English and support it with stories, data and examples about his/her region and research (CEFR C1 level)</td>
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<td>C</td>
<td>Cogitation and Creativity</td>
<td>To be able to think logically, deepen his/her critical thinking ability, and to think on a large scale</td>
<td>Can organize the information he/she has received.</td>
<td>Can think logically and critically about the problem at hand and how to solve it.</td>
<td>Can utilize media to accumulate information, find problems and set tasks while analyzing, evaluating and making use of the information.</td>
<td>Can take into account the difference between reality and the ideal, and think critically about already-known facts with a broader perspective and on a larger scale.</td>
<td>Can think positively about unknown matters, can break away from conventional ideas and his/her own way of thinking to generate new ideas.</td>
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<td>D</td>
<td>Ability to Express and Transmit his/her Ideas</td>
<td>To be able to express his/her thoughts boldly in any situation and generate sympathy among others.</td>
<td>Can present his/her opinions and thoughts to the group.</td>
<td>Can convey his/her ideas to the group without hesitation, even when suddenly asked.</td>
<td>Can convey his/her ideas using ICT with data and examples.</td>
<td>Can convey his/her ideas clearly to various people, while keeping each person's background in mind.</td>
<td>Can send out convincing messages to various kinds of people with enthusiasm and use of example stories, and gain sympathy from them.</td>
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<td>E</td>
<td>Ability to Collaborate with Others</td>
<td>To cooperate with others and act in ways which encourage each other, transcending differences in culture, sense and age.</td>
<td>Can work on a given task on his/her own, in a group or with other individuals.</td>
<td>Can find his/her role in a group or among other individuals, and use his/her own special qualities for performing actions and helping other members.</td>
<td>Can embrace the good points of group members or other individuals, take in new things, and work toward the common goal.</td>
<td>Can build up a win-win relationship, finding each other's good points in a group or among other individuals.</td>
<td>Can promote collaboration using ICT.</td>
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<td>F</td>
<td>Management Ability</td>
<td>To be able to plan work for him/herself or an organization and move forward with it.</td>
<td>Can work while taking directions.</td>
<td>Can work in a voluntary and responsible manner even without direction.</td>
<td>Can find necessary work for the whole group, set priorities for his/her own task and handle multiple tasks at one time.</td>
<td>Can divide roles among teams or among members, keeping in mind how the tasks fit into the general schedule.</td>
<td>Can ascertain future schedules and risks, and work with team members to take countermeasures against the risks.</td>
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<td>G</td>
<td>Positive Attitude, Responsibility, Challenge</td>
<td>To have confidence and think of him/herself as a person whose existence has meaning; to be able to find his/her own role for solving problems and put all his/her effort into it, to be able to work on a problem until completed.</td>
<td>Can think of him/herself as a person whose existence has meaning, and accept things and events in a positive way.</td>
<td>Can have confidence in him/herself, and positively accept immediate problems as his/her own and work on them independently.</td>
<td>In groups or with other individuals, can find his/her own role and continue thinking about a problem even if there is no quick solution.</td>
<td>Can work to fulfill his/her responsibility regardless of obstacles and be proactive in order to overcome those obstacles, can accept challenges in a positive way.</td>
<td>Can fulfill his/her responsibility even in difficult situations without giving up, can realize benefits even from failure.</td>
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<td>H</td>
<td>Tolerance</td>
<td>To be able to accept people from different cultures and with different ways of thinking, have warm consideration for them and cooperate with them in building each other up.</td>
<td>Can have concern for the group and other individuals.</td>
<td>Can imagine the positions and ways of thinking of the group and other individuals, and empathize with them.</td>
<td>Can act with thoughtfulness toward the group and other individuals, can think of the happiness of the surrounding people.</td>
<td>Can relate to people who have different ways of thinking, can connect to them with good humor and enjoy the differences. Can accept changes in society and the environment in a positive way.</td>
<td>Can accept the opinions of people whose ways of thinking are different, and consider them to be very important for improving him/herself and society.</td>
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<td>I</td>
<td>Active Citizenship</td>
<td>To be aware that he/she has an important role in contributing to society, and be able to think critically about the future of the local area, as well as domestic and international future.</td>
<td>Gain awareness of the role he/she bears.</td>
<td>Be aware that he/she is a member of society and can focus his/her attention on the problems embraced by society.</td>
<td>Have a desire to improve society having an awareness of himself/herself as an important actor in society and have thoughts for the improvement of society.</td>
<td>Have a sense of his/her own value, have a desire to contribute to society and have an influence on society.</td>
<td>Have a will to improve society and the future, can seriously express his/her own opinion to others.</td>
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<td>J</td>
<td>Power to Change Oneself</td>
<td>To be able to review and re-examine his/her way of speaking and acting, have a will to constantly improve, and transfer that to future actions.</td>
<td>Can make his/her own goals in order to improve him/herself.</td>
<td>In order to improve him/herself, can examine the difference between his/her goals and present reality.</td>
<td>Can think of measures by which to approach his/her goals and independently carry them out.</td>
<td>Can act independently to accomplish his/her goals while continually re-examining and reflecting on them and continuing to study, can work to connect all of this with future actions.</td>
<td>Can examine and consider his/her role and significance in society, connect it to his/her goals, and act on it while maintaining a broad perspective.</td>
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<td><strong>C</strong> Cognition and Creativity</td>
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<td><strong>F</strong> Emotional Intelligence, Challenge</td>
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<td><strong>G</strong> Metacognition</td>
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Can think patiently about unknown matters, break away from conventional ideas and his/her own way of thinking to generate new ideas.

Can fulfill his/her responsibility even in difficult situations without running away, can realize benefits even from failure.

Have a will to improve society and the future, can seriously express his/her own opinion to others.

Level 5 of “Active Citizenship”
Curriculum Concept and Outline (High School)

“Inquiry-based Learning to Create a Future” as a core of Futaba’s curriculum

1st Grade
Understand complexity of challenges for community rebuild and development 3 hours/week

2nd Grade
Identify challenges and start inquiry study project 3 hours /week

3rd Grade
Present project outcomes and explore own carrier vision 3 hours /week

Student Exchange Program within the country:
We welcome students from other regions and visit them as well, and organize study tour, homestay and discussion to think about challenges in each region as own issues.

Product design:
We produce agricultural products using vegetables and fruit from Futaba by closely working with farmers and shops in order to help revitalizing Futaba region

Photo by @fukushimaitecho
School curriculums based on lessons learnt from OECD Tohoku School

Curriculum Management in Futaba Future HS

Students assess students based on portfolio etc.

Teachers assess students based on portfolio etc.

Self-review every 6 month

Review progress every 6 month

【students】

【teachers】

Average Growth of Student for 3 years based on our rubric

(Average score of the students entered in 2016 and graduated in 2019)

※ From OECD Tohoku School, we identified that actual practices in a real society contributed for students’ competencies development. Elements for students’ growth based on a rubric assessment is as follows;
1. Interactions with students in other regions (71%)
2. Interactions with students in other ages/grades (56%)
3. Discussion and taking actions for communities in future (54%)
4. Visiting and making presentations in companies and organizations
5. Interactions with teachers
6. Interactions with stakeholders/supporters outside of school

Curriculum creation based on our rubric

Review the rubrics

Integrated Classes

Grade 1【2 credits】
Grade 2【3 credits】
Grade 3【3 credits】

Curriculums are designed to develop competencies specified in the rubrics

Use knowledges and skills obtained at each subject based class

Stimulate subject matters

Japanese
English
Mathematics
Geography and History
Civics
Arts
Information
Sports
Social Welfare
Agriculture
Industry
Business
Others...

Exploration ①

Exploration ②

Average Growth of Student for 3 years based on our rubric

(Average score of the students entered in 2016 and graduated in 2019)
Feedback by students about Futaba’s education

Research results about the education provided in Futaba Future School conducted for the students who graduated in March 2019

Q1. Did Futaba’s education influence your career vision?
- 58% Strongly Agree
- 62% Agree in some extent
- 32% Disagree
- 10% Strongly Disagree

Q2. Was Futaba’s education useful for your university or company entrance?
- 80% Strongly Agree
- 27% Agree in some extent
- 11% Disagree
- 11% Strongly Disagree

Q3. Did Futaba’s education help you find ways to live as an active citizen?
- 87% Strongly Agree
- 59% Agree in some extent
- 16% Disagree
- 4% Strongly Disagree

Q4. Did Futaba’s education help you find the vision of the future you want to thrive in?
- 87% Strongly Agree
- 55% Agree in some extent
- 9% Disagree
- 4% Strongly Disagree
Teachers struggled and continuously discussed how to help students develop competencies which are difficult to measure and have few good precedents. But they became confident about what they had done once they witnessed the growth of students.

Our curriculum is fully in line with the current national curriculum. We did not have any restrictions for its implementation in our school.

“Teacher agency” is the key to success of using flexibility and autonomy given in the national curriculum.
福島県立 ふたば未来学園中学校・高等学校