

DESIGN & TECHNOLOGY DEPARTMENT

REPORT AND EVALUATION 2008-2009

	Action / Task	Evaluation	Suggestion for the next year
1	<p><u>Teaching and Syllabus</u></p> <ul style="list-style-type: none"> • Formulate curriculum goals and develop student based curriculum plans of JTE (DT) and DT: <ul style="list-style-type: none"> ▪ S1: Students should focus on Creative Thinking Skills ▪ S2: Students should focus on Problem Solving Skills ▪ S3: Students should focus on Analysis of data. • Offer a wide range of projects and activities with more challenging elements. • Launch student-based activities including presentations, sharing and peer evaluation. 	<ul style="list-style-type: none"> • Students have learned about basic design skills, how to work with different materials and appropriate hand tools in S1. Then gradually move on to more complicated designs in S2 & S3, such as solar model car design and electronic piano design. • The revised curriculum has incorporated key elements of NSSC, (e.g. 3D Modeling concept and Application of CAD & Visualization) which enable students to migrate to NSSC smoothly. • Students have learned to improve their design through participating in competitions. They can also learn from others' design and exchange design experience with peers. 	<ul style="list-style-type: none"> • To keep in pace with the rapid development of technology and society, it is necessary to review the syllabus regularly. • Include cross-curricular projects into the curriculum; so students can apply learning into daily life.
2	<p><u>E-Learning database</u></p> <ul style="list-style-type: none"> • Update DT homepage with the latest DT development regularly. • Upload students' work, teachers' comments, teaching materials and interactive teaching activities online. 	<ul style="list-style-type: none"> • Reference materials of each level are available on the E-Learning Platform. Students are able to access the materials for revision after school. 	<ul style="list-style-type: none"> • Continue to upload teaching materials and exercises onto the e-Learning Platform. • Upload students' work onto the website.
3	<p><u>Talented students</u></p> <ul style="list-style-type: none"> • Spot out talented students to join DT Club and provide opportunities to cultivate 	<ul style="list-style-type: none"> • Students showed enthusiasm in participating Club activities and displayed their interest on 	<ul style="list-style-type: none"> • Provided extra support to low achievers.

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	<p>their talent and interests in DT.</p> <ul style="list-style-type: none"> • Devise an open and flexible curriculum framework to cater students with different needs, interests and abilities. 	<p>learning DT.</p> <ul style="list-style-type: none"> • More than 60 students have taken part in the DT Club. They are able to access resources outside class time; hence they have more opportunities to improve their design. 	<ul style="list-style-type: none"> • Encourage students to organize functions or activities.
4	<p><u>Develop students' generic ability</u></p> <ul style="list-style-type: none"> • Integrate student-based activities and projects into the curriculum. • Encourage students to participate in inter-class or inter-school competitions to enhance their motivation in learning and creating. • Improve students' communication skills by presentations, class discussions and peer assessments. • Encourage students to enquire, respond and participate in class. • Encourage students to respect each other when listening to other's presentations and share their views. • Train up students' skill to analyze and develop their aesthetic sense. 	<ul style="list-style-type: none"> • Student-based activities are integrated into the curriculum to enhance students' interest on DT, such as electric mini fan design, music box design and clock design. • Students are encouraged to take part in both internal and external competitions, such as: Robot Athletic Meet, and Solar Car Design Competition. And more than 60 Schools and 180 teams have joined the Joint School Glider Flying Competition. Most of the designs have showed improvement as compared to last year. Some of the students got new inspiration after the competitions. • Students showed interest in educational visits, such as Inno Carnival 08 & The Shenzhou VII Exhibition. Some of the students also took part in the Hong Kong Students dialogue Session with the Shenzhou VII Delegation. It was a great occasion for students to enquire about latest technology and improve their communication skills. • Encourage students to work as student helpers in Open Day. In the process of introducing students' work and interacting with guests, students can reinforce their learning and 	<ul style="list-style-type: none"> • The Joint School Glider Flying Competition is gaining popularity and a larger venue is needed. For Example, the Science Museum is a suitable venue. • Continue to organize outing or activities to arouse students' interest in DT. • Exhibit students' work from time to time, hence students can have more chances to inspect and learn from others' work.

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		<p>improve their communication skills.</p> <ul style="list-style-type: none"> Through showcasing students' work, design skills can be improved from observation and analyzing the strengths and weaknesses of others' works. 	
5	<p><u>Compilation of project guidelines</u></p> <ul style="list-style-type: none"> Project guidelines are compiled into a collection and delivered to all teachers in both hard and soft copies. 	<ul style="list-style-type: none"> Update guidelines regularly so that students are able to learn about the latest technology, especially astronautics science and technology. The Water Rocket Competition encouraged students to learn more about the aerospace industry. 	<ul style="list-style-type: none"> Focus will be put on the impacts of design and technology on the society.
6	<p><u>Staff professional development</u></p> <ul style="list-style-type: none"> Provide DT teachers with updated professional development and training information. Promote updating of subject matter among teachers in response to curriculum development. Organize peer lesson observation to help share good and effective teaching practices. Visit well-established schools for experience sharing. 	<ul style="list-style-type: none"> Teachers learnt more useful knowledge and information from seminars, workshops and exhibitions etc. Teaching materials are shared on the server for teachers' reference. Teaching quality was improved through sharing information and teaching strategies in Peer lesson observation. 	<ul style="list-style-type: none"> Teachers are encouraged to join courses that they are better prepared for the NSSC.
7	<p><u>Curriculum development JTE DT</u></p> <ul style="list-style-type: none"> Review and evaluate current curriculum. Introduce latest DT elements. 	<ul style="list-style-type: none"> Curriculum was revised from time to time to ensure updated information was included in the scheme. 	<ul style="list-style-type: none"> Further refinement of curriculum if needed.

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	<ul style="list-style-type: none"> Develop new curriculum to be in line with NSSC in 2008/09. Review and evaluate the content and the outcomes of the curriculum plans with other teachers and conduct follow-up actions. 	<ul style="list-style-type: none"> NSSC elements were integrated into current JTE & DT curriculum to prepare students for the NSSC, for example, solar model car design and 4-legged robot design. 	
8	<p><u>Cross- curricular learning and connections</u></p> <ul style="list-style-type: none"> Enhance communication and cooperation with other departments through cross-curricular learning such as diversified interactive co-curricular activities. Explore new teaching approaches or syllabus to promote cross-curricular learning. 	<ul style="list-style-type: none"> Cross-curricular Project enabled collaboration among departments; it has also provided an opportunity for teachers to gain knowledge of other subjects. Participating students have made impressive designs by applying knowledge learnt from diverse subjects (DT, VA and HE), such as magazine racks, wheel chair for the elderly and cookies with original package design. 	<ul style="list-style-type: none"> Continue the Cross-curricular Project and more students should take part in the Project. Try to develop cross-curricular learning with all the subjects in ATEC.

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