Course Overview

HUBS
مدرسة الحياة العالمية
Hayat Universal School

| Units : | 1 <-> 2 | 3 <-> 4 | 5 <-> 6 | 7 | Academic Year : | 2016 | 2017 | Grade Level | 10 |

Teacher Name : Hany Morcos

Last Update : 2016 August

Overall Expectations

Text-based coding, binary representation of various data types, including text, sound, pictures, video, development and collaboration in a **cloud-based environment**, design and function of networking hardware, functions of operating systems, **design for the web**, strategies for curating and managing personal digital content, including management, personalization, organization, maintenance, contribution, creation, and publishing of digital content, **relationships** between technology and social change, strategies to manage and maintain **personal learning networks**.

U1

Modules Covered

CONTENT | DATES

Information and Communications Technology | Wks 4 | 6

UNIT 1

	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Chromebook Basics **Windows 7**	4 - 5 Weeks | Sep 4 - Oct 13	- What is a Chromebook? - Choosing Between a Chromebook and a Laptop - Getting to Know the Chromebook Interface - Migrating to a Chromebook - Chromebook Settings and Customization - Printing with a Chromebook - Exploring Windows 7 - Getting Started with Windows 7 - Finding Your Files with Search and Libraries	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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Modules Covered

CONTENT	DATES				
Information and Communications Technology	Wks 4 | 6	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
UNIT 1 Google Account **Google Docs Google Drive**	4 - 5 Weeks | Sep 4 - Oct 13	- Getting to Know Google - Understanding Google Privacy - Locked Out of Your Google Account - Quiz - Google Drive - Getting Started With Google Drive - Creating Google Docs - Uploading Files to Google Drive - Managing Your Files - Sharing and Collaborating - Converting and Printing Docs - Quiz	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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U1

Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
Typing Tutorial (UNIT 1)	4 - 5 Weeks | Sep 4 - Oct 13	- Practice Keyboard - More Practice | F | J | - More Practice | D | K | - More Practice | L | S | - More Practice | A | ; | - More Practice | G | H | - More Practice | V | N | - More Practice | U | T | - More Practice | Y | R | - More Practice | B | M |	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

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Teacher Name : **Hany Morcos**	Last Update :	**2016 August**

U1

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Modules Covered

CONTENT	DATES				
Information and Communications Technology	Wks 4	6	**BIG IDEAS COMPETENCIES**	**TEACHING STRATEGIES**	**MATERIALS & RESOURCES**	**ASSESSMENT PLAN**

UNIT 1

Cont. **Typing Tutorial**	4 - 5 Weeks	Sep 4 - Oct 13	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
		- More Practice | I | E | - More Practice | B | M | - More Practice | I | E | - More Practice | C | , | - More Practice | X | . | - More Practice | Q | M | - More Practice | B | P | Z | - More Practice | Shift | - More Practice | ' | - In Class Exercises - Quiz	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

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Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
UNIT 1 **Google Sheets Spreadsheet Basic** **Spreadsheet Tasks**	4 - 5 Weeks | Sep 4 - Oct 13	- Getting Started with Google - Modifying Columns, Rows, and - Formatting Cells - Working with Multiple Sheets - Creating Simple Formula - ~~Creating Complex Formula~~ ~~Types of Cell References~~ - ~~Working With Functions~~ - ~~Sorting and Filtering Data~~ - ~~Understanding the New Google Sheets~~ - ~~Understanding Number Formats~~ - ~~Quiz~~	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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U1

Modules Covered

| CONTENT | DATES | | | | |

Information and Communications Technology	Wks **4	6**	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
UNIT 1 **Google Slides**	**4 - 5 Weeks	Sep 4 - Oct 13**	- Getting Started with Your Presentation - Slide Basics - Text Basics - Adding Pictures and Shapes - Adding Transitions and Animations - Presenting Your Slide Show - Editing Master Slides and Layouts - Quiz	• Presentations • Videos • Questions and Answers • Group Work	Jigsaw • PowerPoint • Whiteboard • Smart-board	Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer	Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • • _____ • _____ • _____ • _____ • _____

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| Teacher Name : | **Hany Morcos** | | Last Update : | **2016 August** |

U2

Modules Covered

Overall Expectations

Text-based coding, binary representation of various data types, including text, sound, pictures, video, development and collaboration in a **cloud-based environment**, design and function of networking hardware, functions of operating systems, **design for the web**, strategies for curating and managing personal digital content, including management, personalization, organization, maintenance, contribution, creation, and publishing of digital content, **relationships** between technology and social change, strategies to manage and maintain **personal learning networks**.

CONTENT	DATES				
Information and Communications Technology	**Wks 4 | 6**	**BIG IDEAS COMPETENCIES**	**TEACHING STRATEGIES**	**MATERIALS & RESOURCES**	**ASSESSMENT PLAN**
UNIT 2 **Internet Safety**	**4 - 5 Weeks | Oct 16 - Dec 1**	- Creating Strong Passwords - Your Browser's Security Features - Avoid Spam and Phishing - Understanding Browser Tracking - What to do if Your Computer Gets a Virus - Wi-Fi Security - Quiz	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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Academic Year : **2016 | 2017**

Teacher Name : **Hany Morcos**

Last Update : **2016 August**

U2 — Modules Covered

Overall Expectations

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CONTENT — DATES

UNIT 2

Information and Communications Technology — Wks 4 | 6

		BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Search Better **Use Information Correctly**	4 - 5 Weeks | Oct 16 – Dec 1	- Google Search Tips - How to Read a Webpage - Judging Online Information - Evaluate a Webpage Practice - Quiz - Putting Information Together - Avoiding Plagiarism - Copyright and Fair Use - Quiz	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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CONTENT   **DATES**

UNIT 2

Information and Communications Technology — **Wks 4 | 6**

		BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Online Research	4 - 5 Weeks | Oct 16 – Dec 1	- What is Wikipedia? - Effective Research with Wikipedia	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments
Social Media Instagram		- What is Instagram - Common Terms - Navigating Instagram - Sharing Photos on Instagram - Photo Sharing Tips - Photo Editing Tips - Sharing Videos on Instagram - Exploring Instagram - Liking and Commenting - Setting and Privacy - Quiz		**ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

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CONTENT	DATES				
Information and Communications Technology	Wks 4 | 6	**BIG IDEAS COMPETENCIES**	**TEACHING STRATEGIES**	**MATERIALS & RESOURCES**	**ASSESSMENT PLAN**

UNIT 2

4 - 5 Weeks | Oct 16 – Dec 1

Pinterest

Vine

BIG IDEAS COMPETENCIES
- What is Pinterest
- Creating a Pinterest Account
- Common Pinterest Terms
- Navigating Pinterest
- Creating a Pinboard
- Managing Pins and Pinboards
- Exploring Pinterest
- Setting and Privacy

- What is Vine?
- Getting Started with Vine
- Navigating Vine
- Creating Vine Videos
- Exploring Vine
- Setting and Privacy
- Farewell!
- Quiz

TEACHING STRATEGIES
- Presentations
- Videos
- Questions and Answers
- Group Work | Jigsaw
- PowerPoint
- Whiteboard
- Smart-board | Promethean
- Auditory
- Kinaesthetic
- Visual
- Prezi
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

MATERIALS & RESOURCES
- Computers
- Google Chrome
- Videos
- Presentations
- Slideshows
- Handouts Hard and Digital
- Internet Research
- _____
- _____
- _____
- _____
- _____

ASSESSMENT PLAN
- Questions and Answers
- Observation
- Checklist
- Conference
- Graphic Organizer
- Class Discussions
- Group Discussions

ASSESSMENT PLAN
- Group Discussions
- Hands-On Exercises
- Individual Presentation
- Group Presentation
- Interviews
- Reader's Workshop
- Homework Writer's
- Workshop Peer | Self
- Assessment Think Pair
- Share
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Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
Youtube (UNIT 2)	4 - 5 Weeks | Oct 16 – Dec 1	- Watching YouTube Videos - Signing in and Navigating - Searching for Videos - Creating Playlists - Setting and Privacy - Parental Controls and Safety Mode - Getting Started with Your Channel - Recording Your Own Videos - Uploading and Sharing Videos - The Creator Studio and Video Manager - Editing Your Videos on YouTube - Farewell!	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • ___ • ___ • ___ • ___ • ___ • ___ • ___	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • ___ • ___ • ___ • ___ • ___ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • ___ • ___ • ___ • ___

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CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
UNIT 2 Information and Communications Technology	**Wks 4	6**				
Office 2013 Word Word Basics **4 - 5 Weeks	Oct 16 - Dec 1**	**Oct 16 - Dec 1**	- Introduction to Word - Creating and Opening Documents - Saving and Sharing Documents - Text Basics - Formatting Text - Page Layout - Printing Documents	• Presentations • Videos • Questions and Answers • Group Work	Jigsaw • PowerPoint • Whiteboard • Smart-board	Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer	Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

HUBS — مدرسة الحياة العالمية — Hayat Universal School

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CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
UNIT 2 — Working with Text; Working with Objects	4 - 5 Weeks | Oct 16 – Dec 1	- Indents and Tabs - Line and Paragraph Spacing - Lists - Hyperlinks - Breaks - Columns - Headers, Footers, and Page Numbers - Pictures and Text Wrapping - Formatting Pictures - Shapes - Text Boxes and WordArt - Arranging Objects - Tables - Charts	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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CONTENT	DATES				
Information and Communications Technology	Wks 4 | 6	**BIG IDEAS COMPETENCIES**	**TEACHING STRATEGIES**	**MATERIALS & RESOURCES**	**ASSESSMENT PLAN**
UNIT 2 — **Reviewing Documents and Collaboration** **Doing More with Word** **Extra**	**4 - 5 Weeks | Oct 16 – Dec 1**	- Checking Spelling and Grammar - Track Changes and Comments - Finalizing and Protecting Documents - SmartArt Graphics - Styles - Themes - Customizing the Ribbon - Enabling Touch Mode - Embedding an Excel Chart - 4 Free Alternatives to Microsoft Office - Quiz	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____

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Modules Covered

CONTENT	DATES			
Information and Communications Technology	Wks 4	6	**BIG IDEAS COMPETENCIES**	**TEACHING STRATEGIES**	**MATERIALS & RESOURCES**	**ASSESSMENT PLAN**

UNIT 2

		BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Excel Basics	4 - 5 Weeks	Oct 16 – Dec 1	- Getting Started with Excel - Creating and Opening Workbooks - Saving and Sharing Workbooks - Cell Basics - Modifying Columns, Rows, and Cells - Formatting Cells - Worksheet Basics - Page Layout - Printing Workbooks - Quiz	• Presentations • Videos • Questions and Answers • Group Work	Jigsaw • PowerPoint • Whiteboard • Smart-board	Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer	Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

HUBS
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Course Overview

Grade Level	10

Units : 1 <-> 2   3 <-> 4   5 <-> 6   7

Academic Year : 2016 | 2017

Teacher Name : Hany Morcos

Last Update : 2016 August

U2
Modules Covered

Overall Expectations

Text-based coding, binary representation of various data types, including text, sound, pictures, video, development and collaboration in a **cloud-based environment**, design and function of networking hardware, functions of operating systems, **design for the web**, strategies for curating and managing personal digital content, including management, personalization, organization, maintenance, contribution, creation, and publishing of digital content, **relationships** between technology and social change, strategies to manage and maintain **personal learning networks**.

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
UNIT 2 — **PowerPoint Basics**	4 - 5 Weeks | Oct 16 – Dec 1	- Getting to Know PowerPoint - Creating and Opening Presentations - Saving and Sharing - Slide Basics - Text Basics - Applying Themes - Applying Transitions - Managing Slides - Printing - Presenting Your Slide Show	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
Text and Objects **More Objects**	4 - 5 Weeks | Oct 16 - Dec 1	- Lists - Indents and Line Spacing - Inserting Pictures - Formatting Pictures - Shapes and WordArt - Arranging Objects - Animating Text and Objects - Inserting Videos - Inserting Audio - Tables - Charts - SmartArt Graphics	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

UNIT 2

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Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
UNIT 2 Review Presentations & Collaboration — Customizing Your Presentation — Extras	4 - 5 Weeks | Oct 16 - Dec 1	- Checking Spelling and Grammar - Reviewing Presentations - Finalizing and Protecting Presentations - Modifying Themes - Slide Master View - Hyperlinks and Action Buttons - Advanced Presentation Options - Embedding an Excel Chart - 4 Free Alternatives to Microsoft Office - Quiz	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
UNIT 2 — Information and Communications Technology	**Wks 4	6**				
Presentations Prezi Getting Started **Working with Basic Content**	**4 - 5 Weeks	Oct 16 – Dec 1**	- Overview of Prezi - Planning Your Presentation - Creating and AccountCreating a New Prezi - Understanding the Interface - Using the Theme Wizard - Importing a PowerPoint Presentation - Adding Text - Adding Images - Adding Shapes - Creating Frames - Creating Layouts - Adding Web Links	• Presentations • Videos • Questions and Answers • Group Work	Jigsaw • PowerPoint • Whiteboard • Smart-board	Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer	Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

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Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
UNIT 2 Cont. **Prezi Arranging and Zooming** **Working with Multimedia Elements**	4 - 5 Weeks | Oct 16 – Dec 1	- Rotating and Aligning Elements - Layering Elements - Grouping Elements - Understanding 3D Backgrounds - Adding Video - Adding Audio - Adding Files - Navigating and Arranging with Paths - Adding Frame Animations	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

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Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
UNIT 2 Cont. **Prezi Presenting Your Prezi** **Sharing and Publishing Your Prezi**	4 - 5 Weeks | Oct 16 – Dec 1	- Using Autoplay - Understanding Options - Presenting from a Browser - presenting from the DesktopPresenting Remotely - Using Smart Zoom - Configuring Privacy Levels for Sharing - Collaborating Online - Embedding a Prezi on a Webpage - Printing Your Prezi	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's Workshop Peer | Self • Assessment Think Pair Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
UNIT 2 **Introduction to Graphic Design Using Adobe CC** - **Photo Editing** - Adobe Photoshop - **Digital Design** - Adobe Illustrator - **Layout Design** - Adobe InDesign - **Web Design** - DreamWeaver | HTML	4 - 5 Weeks | Oct 16 – Dec 1	- Challenges Explained - Getting to Know Your Tools - What is Graphic Design? - What Makes a Design Great?	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

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CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
UNIT 2 — **Introduction To Typography**	4 - 5 Weeks | Oct 16 – Dec 1	- What is Typography - Understanding Fonts and Typeface - Exploring the Anatomy of Type - Learning The Terminology of Type - Exploring the Rules of Typography - Pairing Typeface for Maximum Impact - Finding New Typeface for Your Project - Challenge: Choosing a Typeface - Solution: Choosing a Typeface - Quiz	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

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Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
UNIT 2 **Introduction To Colour**	4 - 5 Weeks | Oct 16 - Dec 1	- Understanding the Rules of Colour - RGB vs. CMYK Explained - Choosing the Right Colours for Your Designs - Challenge: Create a Colour Scheme - Solution: Create a Colour Scheme - Quiz	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

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CONTENT	DATES				
Information and Communications Technology	Wks 4 | 6	**BIG IDEAS COMPETENCIES**	**TEACHING STRATEGIES**	**MATERIALS & RESOURCES**	**ASSESSMENT PLAN**
UNIT 2 **Planning Your Project**	**4 - 5 Weeks | Oct 16 – Dec 1**	- Understanding the Needs of the Project - Brainstorming with Thumbnail Sketches - Exploring Your Thumbnail Sketches - Challenge: Planning Your Project - Solution: Planning Your Project	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • • _____ • _____ • _____ • _____ • _____

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U2 — Modules Covered

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CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology — **UNIT 2** — **Starting Illustrator**	Wks 4 | 6 — 4 - 5 Weeks | Oct 16 – Dec 1	- Illustrator Interface | Tools - Drawing Basic Shapes for Your Logo - Combining Shapes Together - Drawing Complex Shapes - Setting Type in Illustrator - Adding Colour to Your Artwork - Tracing Raster Graphics Using Image Trace - Creating Patterns and Gradients - Saving Your Illustrator Artwork - Quiz	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

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Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
UNIT 2 — **Starting Photoshop**	4 - 5 Weeks | Oct 16 – Dec 1	- Photoshop Interface | Tools - Making Selections - Working with Layer Masks - Challenge: Masking - Solution: Masking - Combining Two Images Together - Removing Unwanted Images - Changing the Colour of Photos - Converting Images to Black and White - Cropping Images Nondestructively - Saving Your Photoshop Files - Quiz	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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Grade Level **10**

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Modules Covered

CONTENT	DATES				
Information and Communications Technology	Wks 4 | 6	**BIG IDEAS COMPETENCIES**	**TEACHING STRATEGIES**	**MATERIALS & RESOURCES**	**ASSESSMENT PLAN**
UNIT 2 — **Starting InDesign**	**4 - 5 Weeks | Oct 16 – Dec 1**	- InDesign Interface | Tools - Creating a Wireframe in InDesign - Importing Graphics into InDesign - Adjusting the Fit of Graphics - Creating Master Pages in InDesign - Importing Colour Swatches into InDesign - Importing Text Documents into InDesign - Creating Styles in InDesign	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
UNIT 2 — Cont. **Starting InDesign**	4 - 5 Weeks | Oct 16 – Dec 1	- Working with Tabs in InDesign - Creating Tables in InDesign - Adding the Final Touches to Your Design - Saving and Exporting Your Final Project - Quiz	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

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Text-based coding, binary representation of various data types, including text, sound, pictures, video, development and collaboration in a **cloud-based environment**, design and function of networking hardware, functions of operating systems, **design for the web**, strategies for curating and managing personal digital content, including management, personalization, organization, maintenance, contribution, creation, and publishing of digital content, **relationships** between technology and social change, strategies to manage and maintain **personal learning networks**.

CONTENT	DATES				
Information and Communications Technology	Wks 4 | 6	**BIG IDEAS COMPETENCIES**	**TEACHING STRATEGIES**	**MATERIALS & RESOURCES**	**ASSESSMENT PLAN**
UNIT 2 **Starting Dreamweaver** **Creating a Webpage**	4 - 5 Weeks | Oct 16 – Dec 1	- Understanding Website Design - Understanding the Internet and Website - Planning and Designing a Website - The Fundamental of HTML - Understanding CSS - Creating Your First Webpage - Adding HTML5 Content - Creating a Local Site	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

HUBS
مدرسة الحياة العالمية
Hayat Universal School

Course Overview

| Units : | 1 <> 2 | 3 <> 4 | 5 <> 6 | 7 | Academic Year : | 2016 | 2017 |

Grade Level **10**

| Teacher Name : | Hany Morcos | Last Update : | 2016 August |

Overall Expectations

Text-based coding, binary representation of various data types, including text, sound, pictures, video, development and collaboration in a **cloud-based environment**, design and function of networking hardware, functions of operating systems, **design for the web**, strategies for curating and managing personal digital content, including management, personalization, organization, maintenance, contribution, creation, and publishing of digital content, **relationships** between technology and social change, strategies to manage and maintain **personal learning networks**.

U2
Modules Covered

CONTENT — DATES

Information and Communications Technology — Wks 4 | 6

UNIT 2

	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Creating a Webpage **Stylizing Content** 4 - 5 Weeks | Oct 16 – Dec 1	- Creating Your First Webpage - Adding HTML5 Content - Creating a Local Site - Styling Content With CSS - Creating a Layout With CSS - Exporting Images From Photoshop - Adding and Manipulating Images	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

HUBS
مدرسة الحياة العالمية
Hayat Universal School

Course Overview

| Grade Level | **10** |

Units : 1 ◁▷ 2   3 ◁▷ 4   5 ◁▷ 6   7   **Academic Year :** **2016 | 2017**

Teacher Name : **Hany Morcos**   **Last Update :** **2016 August**

Overall Expectations

U2

Modules Covered

Text-based coding, binary representation of various data types, including text, sound, pictures, video, development and collaboration in a **cloud-based environment**, design and function of networking hardware, functions of operating systems, **design for the web**, strategies for curating and managing personal digital content, including management, personalization, organization, maintenance, contribution, creation, and publishing of digital content, **relationships** between technology and social change, strategies to manage and maintain **personal learning networks**.

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Information and Communications Technology	Wks 4 | 6				
UNIT 2 **Adding Navigation and Pages** **Creating a Flexible Layout** **Adding Media**	4 - 5 Weeks | Oct 16 – Dec 1	- Adding Links - Creating Navigation - Building Transition on Navigation - Adding Multiple Pages - - Adding Media Queries - Creating a Layout fro Tables - Creating a Layout for Mobile - Inserting an Edge Animate Composition - Implementing Video - Adding Social Media	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

HUBS
مدرسة الحياة العالمية
Hayat Universal School

Course Overview

| Units : | 1 ⟷ 2 | 3 ⟷ 4 | 5 ⟷ 6 | 7 | Academic Year : | 2016 | 2017 |

Grade Level 10

Teacher Name : **Hany Morcos** | Last Update : **2016 August**

Overall Expectations

Text-based coding, binary representation of various data types, including text, sound, pictures, video, development and collaboration in a **cloud-based environment**, design and function of networking hardware, functions of operating systems, **design for the web**, strategies for curating and managing personal digital content, including management, personalization, organization, maintenance, contribution, creation, and publishing of digital content, **relationships** between technology and social change, strategies to manage and maintain **personal learning networks**.

U2

Modules Covered

CONTENT	DATES				
Information and Communications Technology	Wks 4 | 6	**BIG IDEAS COMPETENCIES**	**TEACHING STRATEGIES**	**MATERIALS & RESOURCES**	**ASSESSMENT PLAN**
UNIT 2 Creating a Contact For, Testing and Uploading	4 - 5 Weeks | Oct 16 – Dec 1	- Adding Input Fields - Sending Contact-Form Engine - Finalizing the Website - Optimizing for Search Engine - Uploading the Site	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

HUBS
مدرسة الحياة العالمية
Hayat Universal School

Course Overview

| Units : | 1 ⟷ 2 | 3 ⟷ 4 | 5 ⟷ 6 | 7 | Academic Year : | 2016 | 2017 | Grade Level 10 |

| Teacher Name : | Hany Morcos | Last Update : | 2016 August |

U3

Modules Covered

Overall Expectations

Drafting technique, including dimensioning and standards, drafting styles, including perspective, mechanical, and architectural, CADD/CAM, CNC and 3D printing, function of models, basic code, digital output devices, virtual creation using CAD/CAM.

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Drafting	**Wks 4 | 6**				
UNIT 3 **AutoCAD 2015** **Introduction to AutoCAD 2015**	**4 - 5 Weeks | Dec 4 - Jan 12**	- Staring AutoCAD 2015 - AutoCAD User Interface - Changing the Colour Scheme - Workspace in AutoCAD - Application Meny - Quick Access Toolbar - File Tabs - Graphic Window - View Cube - Navigation Bar - Command Line - Status Bar - Menu Bar - Changing the Display of the Ribbon - Dialogs and Palettes - Tool Palettes - Shortcut Menus - Selection Window - Staring a New Drawing - Command List - 3D Commands	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • • Essay • Rubric(s) • _____ • _____ • _____ • _____

HUBS
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Hayat Universal School

Course Overview

		Grade Level	10
Units :	1 <> 2 3 <> 4 5 <> 6 7	Academic Year :	2016	2017
Teacher Name : Hany Morcos		Last Update :	2016 August

U3

Overall Expectations

Drafting technique, including dimensioning and standards, drafting styles, including perspective, mechanical, and architectural, CADD/CAM, CNC and 3D printing, function of models, basic code, digital output devices, virtual creation using CAD/CAM.

Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Drafting	**Wks 4	6**				
UNIT 3 **AutoCAD 2015 Drawing Basics**	**4 - 5 Weeks	Dec 4 - Jan 12**	- Drawing Lines - Erasing	Undoing	Redoing - Drawing Circles - Drawing Arcs - Drawing Splines - Drawing Ellipses - Drawing Polylines - v Rectangles - Drawing Polygons - Exercise	• Presentations • Videos • Questions and Answers • Group Work	Jigsaw • PowerPoint • Whiteboard • Smart-board	Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer	Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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Course Overview

Units :	1 <> 2	3 <> 4	5 <> 6	7	Academic Year :	2016	2017

Grade Level : 10

Teacher Name : Hany Morcos

Last Update : 2016 August

U3 — Modules Covered

Overall Expectations

Drafting technique, including dimensioning and standards, drafting styles, including perspective, mechanical, and architectural, CADD/CAM, CNC and 3D printing, function of models, basic code, digital output devices, virtual creation using CAD/CAM.

CONTENT	DATES				
Drafting	**Wks 4	6**	**BIG IDEAS COMPETENCIES**	**TEACHING STRATEGIES**	**MATERIALS & RESOURCES**	**ASSESSMENT PLAN**
UNIT 3 **AutoCAD 2015 Drawing Aids**	**4 - 5 Weeks	Dec 4 - Jan 12**	- Setting Grid and Snap - Setting the Limits of a Drawing - Setting the Lineweight - Using Ortho Mode and Polar Tracking - Using Layers - Using Object Snaps - Running Object Snaps - Cycling Through Object Snaps - Using Zoom Tools - Panning Drawings - Exercise	• Presentations • Videos • Questions and Answers • Group Work	Jigsaw • PowerPoint • Whiteboard • Smart-board	Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer	Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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Teacher Name :	**Hany Morcos**	Academic Year : **2016	2017**
		Last Update : **2016 August**

U4

Overall Expectations

Drafting technique, including dimensioning and standards, drafting styles, including perspective, mechanical, and architectural, CADD/CAM, CNC and 3D printing, function of models, basic code, digital output devices, virtual creation using CAD/CAM.

Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Drafting	**Wks 4	6**				
UNIT 4 — **AutoCAD 2015 Editing Tools**	**4 - 5 Weeks	Jan 15 - Mar 9**	- The Move Tool - The Copy Tool - The Rotate Tool - The Scale Tool - The Trim Tool - The Extended Tool - The Fillet Tool - The Chamfer Tool - The Mirror Tool - The Explode Tool - The Stretch Tool - The Polar Array Tool - The Offset Tool - The Path Array Tool - The Rectangular Array Tool - Editing Using Grips - Modifying Rectangular Array - Modifying Polar Array - Exercise	• Presentations • Videos • Questions and Answers • Group Work	Jigsaw • PowerPoint • Whiteboard • Smart-board	Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer	Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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مدرسة الحياة العالمية
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Course Overview

Units :	1 <> 2	3 <> 4	5 <> 6	7	Academic Year :	2016	2017

Grade Level 10

Teacher Name :	Hany Morcos	Last Update :	2016 August

U4

Overall Expectations

Drafting technique, including dimensioning and standards, drafting styles, including perspective, mechanical, and architectural, CADD/CAM, CNC and 3D printing, function of models, basic code, digital output devices, virtual creation using CAD/CAM.

Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Drafting	Wks 4	6				
AutoCAD 2015 Multi View Drawings **Dimensions and Annotations**	4 - 5 Weeks | Jan 15 - Mar 9	- Creating Orthographic View - Creating Auxiliary Views - Creating Named Views - Exercises - Creating Dimensions - Adding Leaders - Adding Dimensional Tolerance - Geometric Dimensioning and Tolerance - Editing Dimensions By Stretching - Modifying Dimensions By Trimming and Extending - Using The DIMWIT Command - Exercises	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

UNIT 4

HUBS
مدرسة الحياة العالمية
Hayat Universal School

Course Overview

Grade Level	**10**

Units : 1 <> 2   3 <> 4   5 <> 6   7   **Academic Year : 2016 | 2017**

Teacher Name : Hany Morcos   **Last Update : 2016 August**

U4

Modules Covered

Overall Expectations

Drafting technique, including dimensioning and standards, drafting styles, including perspective, mechanical, and architectural, CADD/CAM, CNC and 3D printing, function of models, basic code, digital output devices, virtual creation using CAD/CAM.

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Drafting	**Wks 4 | 6**				
UNIT 4 — AutoCAD 2015 Section Views	**4 - 5 Weeks | Jan 15 - Mar 9**	- The Hatch Tool - Setting the Properties of Hatch Lines - Island Detection Tools - Text in Hatching - Editing Hatch Lines - Exercises	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

HUBS
مدرسة الحياة العالمية
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Course Overview

	Grade Level	10

Units : 1 <-> 2 3 <-> 4 5 <-> 6 7   Academic Year : 2016 | 2017

Teacher Name : **Hany Morcos**   Last Update : 2016 August

Overall Expectations

U4

Drafting technique, including dimensioning and standards, drafting styles, including perspective, mechanical, and architectural, CADD/CAM, CNC and 3D printing, function of models, basic code, digital output devices, virtual creation using CAD/CAM.

Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Drafting	**Wks 4 | 6**				
AutoCAD 2015 Layout and Annotative Objects (UNIT 4) **Final Project**	**4 - 5 Weeks | Jan 15 - Mar 9**	- Drawing Layout - Working with Layout - Creating Viewports in the Paper Space - Changing the Layer Properties in Viewport - Creating the Title Block on the Layout - Working with Annotative Dimensions - Scaling Hatches Relative to Viewports - Working with Annotative - Exercise - To Decided Later	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

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Course Overview

| Units : | 1 ⟷ 2 | 3 ⟷ 4 | 5 ⟷ 6 | 7 | Academic Year : | 2016 | 2017 | Grade Level | 10 |

Teacher Name : Hany Morcos — **Last Update :** 2016 August

U4

Overall Expectations

Drafting technique, including dimensioning and standards, drafting styles, including perspective, mechanical, and architectural, CADD/CAM, CNC and 3D printing, function of models, basic code, digital output devices, virtual creation using CAD/CAM.

Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Drafting	**Wks 4	6**				
UNIT 4 **AutoCAD 2015** **Exploring the User Interface** **Managing Files and Options** **Navigating Drawings** **Drawing Objects** **Modifying Objects**	**4 - 5 Weeks	Jan 15 – Mar 9**		• Presentations • Videos • Questions and Answers • Group Work	Jigsaw • PowerPoint • Whiteboard • Smart-board	Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer	Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

HUBS
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Hayat Universal School

Course Overview

Units :	1 <> 2	3 <> 4	5 <> 6	7	Academic Year :	**2016	2017**	

Grade Level 10

Teacher Name :	**Hany Morcos**	Last Update :	**2016 August**

U4

Modules Covered

Overall Expectations

Drafting technique, including dimensioning and standards, drafting styles, including perspective, mechanical, and architectural, CADD/CAM, CNC and 3D printing, function of models, basic code, digital output devices, virtual creation using CAD/CAM.

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Drafting	**Wks 4	6**				
Drawing Accurately **Practice Drawing Projects** **Hatching and Creating Gradients** **Writing** **Dimensioning** **Managing Object and Layer Properties**	4 - 5 Weeks	Jan 15 – Mar 9		• Presentations • Videos • Questions and Answers • Group Work	Jigsaw • PowerPoint • Whiteboard • Smart-board	Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's Workshop Peer	Self Assessment Think Pair Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

UNIT 4

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Course Overview

| Units : | 1 <—> 2 | 3 <—> 4 | 5 <—> 6 | 7 | Academic Year : | 2016 | 2017 |

Grade Level 10

| Teacher Name : | Hany Morcos | Last Update : | 2016 August |

U4

Modules Covered

Overall Expectations

Drafting technique, including dimensioning and standards, drafting styles, including perspective, mechanical, and architectural, CADD/CAM, CNC and 3D printing, function of models, basic code, digital output devices, virtual creation using CAD/CAM.

CONTENT

DATES

Drafting	Wks 4 | 6	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
UNIT 4 **Reusing Content** **Defining Attributes and Configuring Tables** **Making External References** **Working with Layouts and Annotation** **Creating Outline**	4 - 5 Weeks | Jan 15 – Mar 9		• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

HUBS
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Hayat Universal School

Course Overview

| Units : | 1 ⟷ 2 | 3 ⟷ 4 | 5 ⟷ 6 | 7 | Academic Year : | 2016 | 2017 | Grade Level 10 |

| Teacher Name : | Hany Morcos | Last Update : | 2016 August |

U5

Modules Covered

Overall Expectations

Uses of electronics and robotics, **components** of an electric circuit, ways in which various **electrical components** affect the path of electricity, **Ohm's law, platforms** for PCB (printed circuit board) production, basic robot behaviours using **input/output devices**, movement- and sensor-based responses, and microcontrollers, **mechanical devices** for the transfer of mechanical energy, mechanical advantage and power efficiency, including friction, force, and torque, robotics **coding**, various **platforms** for robotics programming.

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Electronics and Robotics	**Wks 4	6**				
UNIT 5 — Scratch Programming Language / Introduction to Scratch	4 - 5 Weeks	Mar 16 - Apr 13	- Programming is Fun - Graphical vs. Coding-based Languages - What is Scratch? - Create a Scratch Account - Your First Project - Backdrops - Sprites - Paint in Vector Mode - Paint in Bitmap Mode - Backpack - Tutorial - Exercise Files	• Presentations • Videos • Questions and Answers • Group Work	Jigsaw • PowerPoint • Whiteboard • Smart-board	Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ **ASSESSMENT PLAN** • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer	Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

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Hayat Universal School

Course Overview

Units :	1 ◁▷ 2 3 ◁▷ 4 5 ◁▷ 6 7	**Grade Level** 10
		Academic Year : 2016	2017
Teacher Name : Hany Morcos		**Last Update :** 2016 August

U5

Modules Covered

Overall Expectations

Uses of electronics and robotics, **components** of an electric circuit, ways in which various **electrical components** affect the path of electricity, **Ohm's law, platforms** for PCB (printed circuit board) production, basic robot behaviours using **input/output devices**, movement- and sensor-based responses, and microcontrollers, **mechanical devices** for the transfer of mechanical energy, mechanical advantage and power efficiency, including friction, force, and torque, robotics **coding**, various **platforms** for robotics programming.

CONTENT	DATES				
Electronics and Robotics	**Wks 4	6**	**BIG IDEAS COMPETENCIES**	**TEACHING STRATEGIES**	**MATERIALS & RESOURCES**	**ASSESSMENT PLAN**
UNIT 5 Scratch Programming Language Knowing Scratch	**4 - 5 Weeks	Mar 16 - Apr 13**	- Programming is Fun - Graphical vs. Coding-based Languages - Using the Scratch Screen - Exploring the Blocks - Changing the Backdrop - Creating Your First Program - Saving Your Project - Opening Projects - Opening Shared Projects	• Presentations • Videos • Questions and Answers • Group Work	Jigsaw • PowerPoint • Whiteboard • Smart-board	Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer	Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

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Units :	1 ◁▷ 2	3 ◁▷ 4	5 ◁▷ 6	7	Academic Year :	2016	2017

Grade Level 10

Teacher Name :	Hany Morcos	Last Update :	2016 August

U5

Overall Expectations

Uses of electronics and robotics, **components** of an electric circuit, ways in which various **electrical components** affect the path of electricity, **Ohm's law, platforms** for PCB (printed circuit board) production, basic robot behaviours using **input/output devices**, movement- and sensor-based responses, and microcontrollers, **mechanical devices** for the transfer of mechanical energy, mechanical advantage and power efficiency, including friction, force, and torque, robotics **coding**, various **platforms** for robotics programming.

Modules Covered

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Electronics and Robotics	**Wks 4 | 6**				
UNIT 5 — Drawing with Scratch	4 - 5 Weeks | Mar 16 - Apr 13	- Understanding Coordinates - Changing a Sprite's Position - Using the Pen - Drawing a House in Scratch - Using Directions in Move - Keeping Sprites Upright - Drawing Using Directions - Making Shapes Using Repeat - Putting Loops Inside Loops - Creating Rainbow Painter	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

HUBS
مدرسة الحياة العالمية
Hayat Universal School

Course Overview

| Grade Level | **10** |

Units : 1 ◁▷ 2   3 ◁▷ 4   5 ◁▷ 6   7

Academic Year : 2016 | 2017

Teacher Name : Hany Morcos

Last Update : 2016 August

U6

Modules Covered

Overall Expectations

Uses of electronics and robotics, components of an electric circuit, ways in which various electrical components affect the path of electricity, Ohm's law, platforms for PCB (printed circuit board) production, basic robot behaviours using input/output devices, movement- and sensor-based responses, and microcontrollers, mechanical devices for the transfer of mechanical energy, mechanical advantage and power efficiency, including friction, force, and torque, robotics coding, various platforms for robotics programming.

CONTENT	DATES				
Electronics and Robotics	**Wks 4 | 6**	**BIG IDEAS COMPETENCIES**	**TEACHING STRATEGIES**	**MATERIALS & RESOURCES**	**ASSESSMENT PLAN**

UNIT 6

Spiral Rider	4 - 5 Weeks | Apr 16 - May 25	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
		- Introducing Spiral Rider - Using the Green Flag - Creating Variables - Drawing a Spiral - Changing the Background - Adding Sprites - Animating the Crab - Enabling Keyboard Control - Making the Fish Move - Adding Game Over Messages	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

HUBS
مدرسة الحياة العالمية
Hayat Universal School

Course Overview

	Grade Level	**10**

Units : 1 ⟷ 2   3 ⟷ 4   5 ⟷ 6   7   **Academic Year :** 2016 | 2017

Teacher Name : Hany Morcos   **Last Update :** 2016 August

U6

Modules Covered

Overall Expectations

Uses of electronics and robotics, components of an electric circuit, ways in which various electrical components affect the path of electricity, Ohm's law, platforms for PCB (printed circuit board) production, basic robot behaviours using input/output devices, movement- and sensor-based responses, and microcontrollers, mechanical devices for the transfer of mechanical energy, mechanical advantage and power efficiency, including friction, force, and torque, robotics coding, various platforms for robotics programming.

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Electronics and Robotics	**Wks 4 | 6**				
UNIT 6 — Scripts Costumes	**4 - 5 Weeks | Apr 16 - May 25**	- Motion - Looks - Events - Pen - Control - Sensing - Operators - Variables - Comments and Cleanup - Quiz - Animate Costumes - Draw Custom Vector Costumes - Draw Custom Bitmap Costumes	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests • Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____ • _____

HUBS
مدرسة الحياة العالمية
Hayat Universal School

Course Overview

Units :	1 ◁▷ 2	3 ◁▷ 4	5 ◁▷ 6	7	Grade Level **10**

Academic Year : **2016 | 2017**

Teacher Name : Hany Morcos

Last Update : 2016 August

U6

Modules Covered

Overall Expectations

Uses of electronics and robotics, components of an electric circuit, ways in which various electrical components affect the path of electricity, Ohm's law, platforms for PCB (printed circuit board) production, basic robot behaviours using input/output devices, movement- and sensor-based responses, and microcontrollers, mechanical devices for the transfer of mechanical energy, mechanical advantage and power efficiency, including friction, force, and torque, robotics coding, various platforms for robotics programming.

CONTENT	DATES				
Electronics and Robotics	**Wks 4 | 6**	**BIG IDEAS COMPETENCIES**	**TEACHING STRATEGIES**	**MATERIALS & RESOURCES**	**ASSESSMENT PLAN**
UNIT 6 Build a Game Practice Games Your Final Project	**4 - 5 Weeks | Apr 16 - May 25**	- View the Finished Game - Set Up the Layout - Make a Character Walk - Spawn Clones - Randomness - Detect Collisions - Create Pickup Items - Display a Score - Share Your Creation - Game 1 - Game 2 - Game 3 - Game 4 - Game 5 - To Be Decided Later	• Presentations • Videos • Questions and Answers • Group Work | Jigsaw • PowerPoint • Whiteboard • Smart-board | Promethean • Auditory • Kinaesthetic • Visual • Prezi • _____ • _____ • _____ • _____ • _____ • _____ • _____	• Computers • Google Chrome • Videos • Presentations • Slideshows • Handouts Hard and Digital • Internet Research • _____ • _____ • _____ • _____ • _____ ASSESSMENT PLAN • Questions and Answers • Observation • Checklist • Conference • Graphic Organizer • Class Discussions • Group Discussions	• Group Discussions • Hands-On Exercises • Individual Presentation • Group Presentation • Interviews • Reader's Workshop • Homework Writer's • Workshop Peer | Self • Assessment Think Pair • Share • Tests Quizzes • Assignments • Projects • Essay • Rubric(s) • _____ • _____ • _____ • _____

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مدرسة الحياة العالمية
Hayat Universal School

Course Overview

Grade Level	**10**

Units : **1** **2** **3** **4** **5** **6** **7**   Academic Year : **2016 | 2017**

Teacher Name : **Hany Morcos**   Last Update : **2016 August**

Overall Expectations

U7

Modules Covered

story through media conventions, media production skills, standards-compliant technology, ethical, moral, legal considerations and regulatory issues, Digital and non-digital media technologies, their distinguishing characteristics and uses, techniques for organizing ideas to structure information and

technical and symbolic elements that can be used in storytelling, specific features and purposes of media artworks from the present and the past to explore viewpoints, including those of First Peoples, specific purposes of media use in the social advocacy of First Peoples in Canada, influences of digital media in society

CONTENT	DATES	BIG IDEAS COMPETENCIES	TEACHING STRATEGIES	MATERIALS & RESOURCES	ASSESSMENT PLAN
Media Arts	Wks **4 | 6**				

UNIT 7

Digital Photography

Image Editing

Photoshop Basics

Beginning Graphic Design

4 - 5 Weeks | May 28 - Jun 21

TEACHING STRATEGIES
- Presentations
- Videos
- Questions and Answers
- Group Work | Jigsaw
- PowerPoint
- Whiteboard
- Smart-board | Promethean
- Auditory
- Kinaesthetic
- Visual
- Prezi
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

MATERIALS & RESOURCES
- Computers
- Google Chrome
- Videos
- Presentations
- Slideshows
- Handouts Hard and Digital
- Internet Research
-
-
-
-
-

ASSESSMENT PLAN
Questions and Answers
Observation
Checklist
Conference
Graphic Organizer
Class Discussions
Group Discussions

ASSESSMENT PLAN
- Group Discussions
- Hands-On Exercises
- Individual Presentation
- Group Presentation
- Interviews
- Reader's Workshop
- Homework
- Writer's Workshop
- Peer | Self Assessment
- Think Pair Share
- Tests Quizzes
- Assignments
- Projects
- Essay
- Rubric(s)
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