

Visual Basic CURRICULUM

Week	Lesson	SD Technology Standards	Assignment
1	<p>Lesson 1:</p> <p>Introduction to VB. The basics (computers, programming, and windows). The student will be able to:</p> <ul style="list-style-type: none"> • Identify the hardware components that make up a desktop computer. • Demonstrate how a computer loads and runs a program. • Identify the difference between procedural and event-driven programming. • Use windows commands and applications to manipulate text and files. 	<p>VBP 1.1</p> <p>VBP 3.2</p> <p>VBP5.1</p> <p>VBP 3.2</p>	<p>Knowledge Check</p> <p>Knowledge Check</p> <p>Knowledge Check</p> <p>Knowledge Check</p>
2-3	<p>Lesson 2 :Program and Graphical user Interface Design</p> <ul style="list-style-type: none"> • Place textboxes, label controls, and command buttons on a Visual Basic form. • Change the properties of controls. • Demonstrate writing a program from beginning to end including creating, saving, and printing. • Demonstrate the use of the timer control. 	<p>VBP 3.3</p> <p>VBP 3.3</p> <p>VBP 5.3</p> <p>VBP 3.3</p>	<p><i>Hand in output</i></p> <p><i>Hand in output</i></p> <p><i>Hand in output</i></p> <p><i>Hand in output</i></p>

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4,5,6	Lesson 3: Program design and coding <ul style="list-style-type: none"> • Design a flow chart. • Design a Jackson Diagram • Design and code a program • Desk check Program 	VBP 4.2 VBP 3.1 VBP 5.2 VBP 3.2	Worksheet Flow chart Wksh Jackson Diagram Case Programming # 1-6 Program Analysis
7,8,9	Lesson 4: Variables, arithmetic operators, expressions, & statements. <ul style="list-style-type: none"> • Apply rules for naming variables. • Use the order of operations to evaluate expressions. • Translate algebraic expressions to the basic language. • Write assignment statements to evaluate expressions. • Assign values to variables. • Describe each of the basic data types. • Use the DIM statement to declare variables. • Create programs. 	VBP 5.2 VBP 5.2 VBP 5.2 VBP 5.2 VBP 5..2 VBP 5.2 VBP 5.2 VBP 5.3	Knowledge Check Knowledge Check Knowledge Check Learn It Online Knowledge Check Knowledge Check Knowledge Check Knowledge Check Case Programming # 1-6

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10,11,12	<p>Lesson 5: Decision structures & string variables.</p> <ul style="list-style-type: none"> • Use the string comparison operators to manipulate strings. • Use the Ucase, Lcase, and Trim function appropriately. • Use each of the three forms of If then statement appropriately. • Write Basic expressions to form “Boolean Conditions”. • Arrange the triangle inequality in an application program. • Use compound Boolean expressions with and & or. • Use Mod operator to test divisibility. • Keep running totals and count sequences of statements. • Use select case statements in programs. • Create programs given specifications. 	<p>VBP 5.2</p> <p>VBP 5.2</p> <p>VBP 5.2</p> <p>VBP 5.2</p> <p>VBP 4.2</p> <p>VBP 5.2</p> <p>VBP 5.2</p> <p>VBP 4.2</p> <p>VBP 4.2</p> <p>VBP 5.36</p>	<p>Learn It Online</p> <p>Learn It Online</p> <p>Knowledge Check</p> <p>Knowledge Check</p> <p>Program problem</p> <p>Program exercise</p> <p>Learn It Online</p> <p>Program exercise</p> <p>Program exercise</p> <p>Case Programming #1-6</p>

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13,14.15	<p>Lesson 6 Loop Structures</p> <ul style="list-style-type: none"> • Analyze for-next structure • Use For-Next loops and nested For-Next loops. • Analyze the format structure • Use the format function to format display strings. • Use the format menu to format numerical values, dates, and times. • Analyze the do-loop structure. • Use the Do-While loop construct in application. • Create programs given specifications. 	<p>VBP 3.2</p> <p>VBP 5.2</p> <p>VBP 3.2</p> <p>VBP 5.2</p> <p>VBP 5.2</p> <p>VBP 3.2</p> <p>VBP 5.2</p> <p>VBP 5.2</p>	<p>Program Analysis</p> <p>Program exercise</p> <p>Learn It Online</p> <p>Knowledge Check</p> <p>Learn it Online/ Knowledge Check</p> <p>Learn It Online</p> <p>Knowledge Check</p> <p>Case Programming #1-6</p>

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16,17, 18	<p>Lesson 7 Creating Web Application</p> <ul style="list-style-type: none"> • View a web application in a browser. • View a web application in a browser. • Close and open a web application. • Analyze web page construction requirements • Create a web application. • Add a static text • Add an image, textbox, label, and button to a web page. • Move a control button on a web page. 	<p>WP2.2</p> <p>WP 1.3</p> <p>WP 3.3</p> <p>WP 3.3</p> <p>VBP 5.2</p> <p>WP 3.3</p> <p>VBP 5.2</p> <p>VBP 5.2</p>	<p>Knowledge Check</p> <p>Knowledge Check</p> <p>Knowledge Check</p> <p>Learn It Online/ Knowledge check</p> <p>Program exercise 1</p> <p>Program exercise 2</p> <p>Program exercise 3</p> <p>Program exercise 4</p>

Grading Scale: Brookings High School

Classroom %: In-class work 20%

A+: 98-100 B+: 91-89 C+: 80-82 D+:71-73

Programs – 40%

A: 95-97 B: 86-88 C: 77-79 D: 68-70

Tests – 40%

A-: 92-94 B-: 83-85 C-: 74-76 D-: 65-67