	NamePeriode Journey Inside SM :	Idt-7 Use computational thinking procedure analyze & solve problems.
Digi	ital Information	
	in your directory as your name journey inside binary.	
Direct	son 1: What is Binary Code? tions: Use the http://www.intel.com/content/www/us/en/education/k12/the-journe-eulum/digital-information/lesson1.html website to complete the units in this serie ght side of your screen and complete the questions below after reading the paragraph.	ey-inside/explore-the- s. Choose Lesson 1 on
1.	The code computers use to express the digital information they process is called because it consists of only two symbols—s ands.	d the code
2.	The "bi" in "binary" means	
3.	They use only those two numbers to express the flow of electricity through a	
4.	It is either on or it's off—on is, off is	
Direct paragrant 1.	son 2: A Bit of This and That tions: Choose Lesson 2 on the right side of your screen and complete the question graph and watching the video For a computer to or respond to a command, it has to be translated in computer knows: the 0s and 1s of the number system.	ns below after reading the
	The 0s and 1s represent theandof the transistors.	
3.	A what you would call one of these 0s or 1s.	
Direct	son 3: How Computers Work with Pictures	
2.	They're either on or off,or	
3.	Your computer screen has hundreds of thousands of dots arranged in rows and	
4.	Each dot is a picture element or	
5.	Each of these pixels displays some combination of red/green/blue according a cVGA)	device called a

7. How many lines of pixels does a typical computer monitor have

6. The VGA translates binary-coded information (0s and 1s) into the combinations required to

make up an image on your computer screen.

	Name		Period	
8. How many pixel are in each line				
9. Which means the computer monitor h	as over	ind	ividual pixels	S
10. What are the primary colors	,	, and	·	
CTIVITY 2: PIXEL PICTURE:	<mark>5</mark>			
ake your own picture or design using pixels.				_
lor. NOTE: The result should be a recogniz FRL key and the PRINT SCREEN key. The				
nary activity 2	n pasto your piotar	u 1701 u u	oumonn. <mark>ouro</mark>	on as your raine
esson 4: Binary Numbers				
rections: Choose <mark>Lesson 4</mark> on the right side	e of your screen ar			
aragraph, watching the video, and completing			: 1	
1. The binary system that computers use	to store and proce	ess information	is a base	system.
2. The decimal system is a base	system.			
<mark>ctivity 1</mark> : Decimal and Binary				
1. What is the Binary code for 1:	3:	5:	7:	99
2. What is the Binary code for 2:	4:	6:	8:	10
3. Choose a number what is	s its binary code			
t Next				
4. Choose a Binary code	what is its number	r		
ctivity 2: Number Conversion				
crivily E. Namber Conversion				
What is the Binary code for:		14		_
11		15		_
11				
e will be skipping Lesson 5				
esson 6: ASCII—An Alphabet				
rections: Choose Lesson 6 on the right side		d complete the	questions be	low after reading the
ragraph, watching the video, and completing 1. To make it easier for computers to computers to computers to compute the computer the computers to compute the computer the computers the computer the co		ach other, a star	ndard	has been created:
2. ASCII stands for	Code for			
3. ASCII is anbit code.				
	_			
4 It uses eight hits to represent a	number or n	inctilation marl	7	

IT-IDT Binary

	Name	Period				
5. What is the smallest unit of digital i	What is the smallest unit of digital information					
6. 8 bits = 1 Activity 1: The Name Game						
1. What is your name in ASCII Code?	?					

Activities 2 and 3 (ASCII CODE CHART IN ACTIVITY 3)

Write a secret message with a 48 character limit. Click Code It in Activity 2. Write down the ASCII Code here for a classmate to decode. Do not help them decode the message. Write down the name, first and last, of the classmate who is decoding your message (or trying to), and what he or she says it means.

NAME OF CLASSMATE:

MESSAGE IN CODE:

CLASSMATE'S DECODED MESSAGE:

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