



## Compression

### Lesson Plan: Class 07 / IP / 01



<b>Overall goal of the lesson</b>	Exercises on data Compressions
<b>Prior knowledge required</b>	Basic reading and writing

**MODULE 1:     Module time:** 35 minutes

<b>Goal:</b>	Students will learn about data compressions with the help of simple text
<b>Description:</b>	Students will learn about compression of data with the help of a simple poem and how to deconstruct the poem without losing the meaning of it by using pointers.
<b>Material required:</b>	<b>Physical: Worksheet 07-IP-01-WS</b> <b>Electronic: PPT presentation (07-IP-01-PPT) as a reference to teach compression.</b>
<b>Procedure Summary:</b>	<ol style="list-style-type: none"> <li>1. Go over the power point presentation (07-IP-01-PPTX) with the kids</li> <li>2. Distribute the worksheet (07-IP-01-WS) to see how much the students have understood the concept.</li> </ol>
<b>Procedure Details:</b>	<ol style="list-style-type: none"> <li>1. Start the class with questioning and explaining about compression.</li> <li>2. Give real life examples how things get compressed for storage but does not lose its shape or quality when decompressed (examples:- packing a suitcase, jackinthebox toy etc..). Ask the students if they can come up with other examples.</li> <li>3. Since computers only have a limited amount of space to hold information, they need to represent information as efficiently as possible. This is called compression. By coding data before it is stored, and decoding it when it is retrieved, the computer can store more data, or send it faster through the Internet.</li> <li>4. Now with the help of PPT, show them simple texts and how they can be compressed to reduce the size of the text. Explain how the pointers are used to give reference to the compressed portion and how we use the pointers as reference to decompress the text.</li> <li>5. Question them on, if the text lost its meaning because they were compressed? Whether we were able to save space because of the compression? Did the pointers help us to decompress?</li> <li>6. Distribute the worksheet (07-IP-01-WS) and check if the kids have understood the concept of Compression.</li> </ol>
	A lesson on compression using simple text and pointers.
<b>Information Broadcast:</b>	Exercises on Compression.