## Work sample 14932 & 14947

Do research about the origins of data communications that we use today and the developments from the past that led to where we are now. Write an essay about the history of data communications to the present date. Include extracts and pictures from your sources.

In your essay you have to explain the taxonomy of the data communication systems used in South Africa today

Explain and described the different telephone network services found in SA. Explain the functions of the different telephone network components.

You have to compare their features and costs in the form of a table

Describe the problems typically found during digital transmission of data

Explain the different options that are available to users as the distance increases

What developments are emerging and what can we expect in the future regarding data communications?

## Verbal assessment 14932 & 14947

You have to answer the following questions verbally. Your facilitator will note your replies and assess you according to the table provided.

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| Actions: did the learner | Y | N | Make short notes of learner’s answers  |
| Describe the characteristics of synchronous data communication |  |  |  |
| Describe the features of synchronous data communication |  |  |  |
| Describe the characteristics of asynchronous data communication |  |  |  |
| Describe the features of asynchronous data communication |  |  |  |
| Describe the interface of the physical layer for synchronous communication |  |  |  |
| Describe the interface of the physical layer for asynchronous communication |  |  |  |
| Describe the application and operation of protocols for synchronous communication |  |  |  |
| Describe the application and operation of protocols for synchronous communication |  |  |  |
| Describe delays that occur during transmission of data |  |  |  |
| Describe the operation of link protocols |  |  |  |
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