

Exemplar 9: Pupils' Favourite Extra-Curricular Activities
(Project Learning)

Learning Dimension: Data Handling

Learning Units: Bar Charts (II)

Key Stage: 2

- Objectives :**
- (i) To use appropriate methods to collect data
 - (ii) To organize and present data
 - (iii) To use relevant statistical charts to represent collected data
 - (iv) To read and discuss charts constructed
 - (v) To make recommendations based on the data collected

Prerequisite Knowledge: Experience of collecting data and drawing block graphs and bar charts

Teaching Resources: Grid paper

Description of the Activity:

1. Pupils, working in groups, discuss and design a method to collect information about their classmates' favourite extra-curricular activities.
2. Pupils collect data and organize the data collected.
3. Pupils select suitable and relevant statistical charts to present the data.
4. Pupils read and discuss the charts and make recommendations based on the set of data collected.
5. Pupils report to the class orally.
6. Each group of pupils submits a report.

Notes for Teachers:

1. Teacher prepares prior information about the extra-curricular activities organized at school.
2. It is desirable for pupils to work in small groups.
3. Project Learning Guidelines (see Annex) should be given to pupils.
4. Assessment of pupils' performance in the project should not only focus on the product (the written report). Their attitude towards the project and their participation, etc. should also be considered (see point 6 below for the assessment criteria).

5. Part of the project can be done at home and pupils should be given adequate time for discussion and preparation of the project. In addition, the teacher should give pupils suggestions as to the time schedule for the project and tell them by when they should have completed their work.
6. Pupils' performances can be assessed based on the following criteria:

Criteria	Description of the Criteria
Understand the theme of the project	<ul style="list-style-type: none"> • Do pupils demonstrate a thorough understanding of the theme of the project? • Do pupils know how to carry out the project and what information they are expected to collect?
Using appropriate strategies and methods	<ul style="list-style-type: none"> • Are proper methods of data collection designed and relevant information collected? • Do pupils use appropriate statistical charts to represent the data collected? • Do pupils analyze and compare data?
Accuracy	<ul style="list-style-type: none"> • Do pupils construct statistical charts accurately? • Do pupils analyze the statistical chart accurately? • Do pupils make feasible recommendations based on their analysis (e.g. which extra-curricular activities are to be added)?
Presentation and Communication	<ul style="list-style-type: none"> • Can pupils present their work in a systematic and logical way? • Do pupils report their work accurately?
Attitude	<ul style="list-style-type: none"> • Do pupils exercise a good team spirit? • Are pupils actively involved in the activity? • Have pupils reviewed their work in a timely manner?

The criteria suggested are by no way exhaustive and each criterion above is not of the same importance.

This exemplar mainly involves the following generic skills:

1. Collaboration Skills

- Collaborate and work in groups
- Share responsibilities and understand the roles of individual members in collecting data, preparing the project and presenting the project

- Share ideas openly and freely with others in designing the project and the division of duties
- Liaise, negotiate and compromise with others in designing data collection and in the presentation of the project
- Share ideas in making recommendations on extra-curricular activities at school

2. Communication Skills

- Use suitable communicative skills to collect information
- Discuss with group members during working
- Report to the class and discuss with classmates and teacher during reporting

3. Critical Thinking Skills

- Read and discuss charts critically
- Draw logical conclusions and make feasible and logical recommendations based on evidence

Project Learning Guidelines

Project Title: Survey on Pupils' Favourite Extra-curricular Activities

1. Procedures

- (a) Collect and record information of the P5 pupils' favourite extra-curricular activities
- (b) Organize information and construct appropriate statistical charts. Compare the situations of boys and girls regarding their favourite extra-curricular activities, and draw conclusions

2. Format of Report

Submit a report, with content as follows:

- (a) Cover design – a simple design that reflects the theme of the project
- (b) Group member information – list out the duties of each member, e.g.

Group Member	Job Nature/Area
1. (Group Leader)	
2. XXXXXX	
XXXXXXXXXX	

- (c) Source of Information – jot down relevant information of pupils' favourite extra-curricular activities
- (d) Information Organizing – tabulate the refine information
- (e) Draw relevant statistical charts
- (f) Analysis of information and conclusion – analyze boys' and girls' favourite extra-curricular activities, and then draw conclusions