



IRELAND 2024

20th International Geography Olympiad

20th August 2024 - Fieldwork Exercise

AFTERNOON – PROBLEM SOLVING ACTIVITY

Booklet D for Problem Solving Activity (PSA)

Student number

Please insert your student number:

| | | | | | |
|---|---|--|--|--|--|
| 2 | 0 | | | | |
|---|---|--|--|--|--|

General Instructions

Students educated in English will have 1 hour 30 minutes to write this test.

Students not educated in English will be provided with 20 extra minutes, 1 hour and 50 minutes.

Remember to use your maps, information booklet and work from this morning.

Marks

The examiners will complete this table, please leave blank:

| Question | Mark |
|----------------------|-------------|
| Activity PSA1 | / 8 |
| Activity PSA 2 | / 4 |
| Activity PSA3 | / 8 |
| Activity PSA4 | / 14 |
| Activity PSA4 | / 6 |
| 1, 2 | / 12 |
| 3, 4, 5 | / 28 |
| Total for PSA | / 40 |

Enquiry Question for Problem Solving Activity:

How can Maynooth Station be developed to provide a sustainable and accessible transport hub for everyone?

Activity PSA-1 People in Maynooth

Diagram PSA-1 Population pyramid for Maynooth 2022



Activity PSA-1a Describe two **features** of the population living in Maynooth that you observe in the population pyramid in diagram PSA-1.

Feature 1


Feature 2

(2 marks)

Diagram PSA-2: Average number of people getting on and off the train per day in Maynooth (to the nearest 10)

| Year | 2022 | 2021 | 2019 | 2018 | 2017 | 2016 |
|--|------|------|------|------|------|------|
| Number of people who got on the train | 3190 | 2080 | 3780 | 3360 | 3140 | 2700 |
| Number of people who got off the train | 2980 | 2140 | 3430 | 3370 | 3090 | 2570 |

Activity PSA-1a In the space below, **construct a graph** to give a visual presentation of the data in the table above (4 marks). Give your graph a title and label it appropriately (6 marks).



(__ / 8 marks)

Activity PSA-2 Expanding passenger numbers

Re-read the article on the expansion of the railway (Source 4).

Think about the expansion of the railway services and the increase in passengers using the station:

- a. Describe 2 **advantages** the expansion of railway passenger numbers will bring to the area of Maynooth near the station. (2 marks)

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- a. Describe 2 **disadvantages** the expansion of railway passenger numbers will bring to the area of Maynooth near the station? (2 marks)

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(__ / 4 marks)

Activity PSA-3 Problems at the station

You have been asked by Kildare County Council to produce resources and ideas to support an Active Travel Plan for the area around Maynooth Station for when the passenger numbers increase. On the aerial photograph below, annotate the photo to **name and explain 4 problems** at the station.

(8 marks)

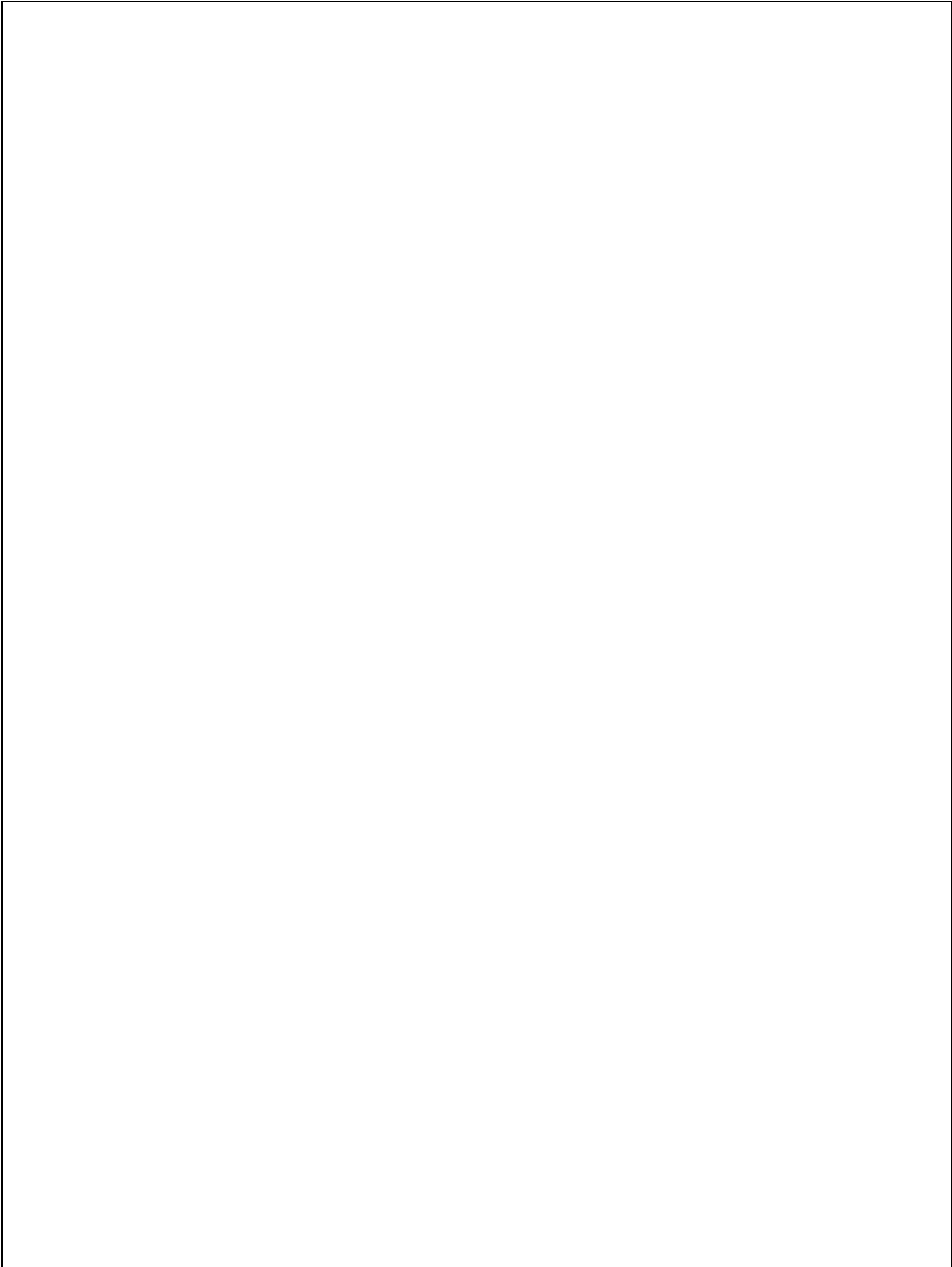


(___ / 8 marks)

Activity PSA4 Creating a Station plan

Use your geographical knowledge, observations and skills to make a map of a more accessible Maynooth Station. Annotate your map to justify the features you have included.

(14 marks)

A large, empty rectangular box with a thin black border, intended for the student to draw and annotate a map of Maynooth Station. The box occupies most of the page's width and height.

(__ / 14 marks)

Activity PSA5 Opportunities and risks

a. Think about the long-term sustainability of your proposed plan.

Describe **3** possible benefits and **3** risks for your plan in each of the aspects in the table below.

(6 marks)

| Aspects of sustainability | Benefits | Risks |
|----------------------------------|-----------------|--------------|
| Environmental | | |
| Financial | | |
| Social | | |

(__ / 6 marks)

This is the end of the fieldwork exercise

