**Developing Clams**

A clam farmer performed an investigation studying the water temperature and the number of fertilized clam eggs that develop weekly. The results of his experiment are shown in the data table below.

|  |  |
| --- | --- |
| **The Effect of Temperature on Clam Development** | |
| Water Temperature (°C) | Number of Developing Clams |
| 5 | 75 |
| 10 | 90 |
| 15 | 120 |
| 20 | 140 |
| 25 | 75 |
| 30 | 40 |
| 35 | 15 |
| 40 | 0 |

1. Identify the independent variable for this investigation.

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1. Identify the dependent variable for this investigation.

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1. What is the experimental question that the farmer might be investigating?

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1. Write an appropriate testable hypothesis for this investigation.

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1. List 3 variables that should remain constant in this investigation.

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1. Based on the data in the table, predict what the rate of clam development would be at a temperature of 45°C.

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1. Use the data from the data table to construct a line graph using the grid below.

