

# Facilitator's sheet

## Activity: Dark matter

Examine the past GCSE questions on cards. Complete the last column to list questions that demand each process.

## Thinking processes

Apply	Recognition of the concept in a genuinely unfamiliar situation, and reasoning about which are the relevant aspects and how to use them
Analyse	(Apply plus) Use given information to draw a not previously made inference to interpret, conclude, judge or evaluate

## Enquiry

Hypotheses	Think of possible explanations for unfamiliar observations or data, making predictions, or working out which hypothesis fits the data best
Variables	Understand which variables were chosen in an experiment and whether they were controlled or not, or choose and control variables in your own investigation

## Maths

Ratio and proportionality	Ratio as a relationship between two quantities, and proportional when one variable is a constant ratio times another
Probability and correlation	Probabilistic reasoning goes beyond outcomes being present or not to factors increases the chances of the outcome. Identifying correlation means recognising when one factor changes another

## Questions that need it

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1, 2, 4, 5, 6, 7, 8, 9, 10

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

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7, 10

8

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5, 6, 7, 9, 11

4, 7, 11