 Inspiring scientific thinking – group activity

Complete the table below.

| Scientific thinking | Answer |
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| Gathering evidence by observation (how do we know what we know?)* What did you observe?
* What patterns did you notice?
* What did you expect to find and why?
* How was it similar to what you thought?
* How was it different to ………..?
* Why do you think that ………..?
* What might have caused ………..?
* What evidence do you have?
* What assumptions did you make?
* How did you decide ……..?
* What reasons did you have …………..?
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| Posing a testable question* What would you like to find out?
* What do you already know or think about it?
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| Planning a practical investigation* What’s the best way to answer the question?
* What kind of data will you need to collect?
* What would you look for?
* What variables (factors) need to be considered to make it a fair test?
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| Writing the hypothesis* What is the independent variable?
* What is the dependent variable?
* How do I link these in a statement to be tested in a fair test?
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| Designing the method* What things will I need?
* Where will I do the investigation?
* What steps will I take?
* What things will I measure?
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| Recording* How will I record my results?
* Will I be recording qualitative or quantitative data?
* How can I best communicate my information?
* Who is my audience?
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