



20 metacognitive questions to ask in primary science lessons



Before (planning stage)

- Is this task/challenge/investigation similar to something you have seen before?
- Is the objective clear?
- How will you start?



During (monitoring stage)

- Are you on the right track?
- Are you stuck? Why?
- What extra information would be useful?
- What could you change/do differently?
- What other resources would be useful to help you?
- Who could you ask for help?



After (evaluating stage)

- How did the practical science work help you to learn?
- How does observing help you learn?
- Why is measuring better than just looking?
- How do pictures/diagrams help you learn about science?
- If your prediction is not correct, does this matter?
- Did you learn anything that you can share with/will help others?
- How could you use what you have learnt in the future?
- What role did you have in this project? What could you do differently next time to work better?
- What did you find difficult? Why?
- What would you like to know more about?
- How could what you have learnt be useful elsewhere?