Science Bringing it to Life Year 7 – 8
Student Questioning Tool

Ask these questions to help you think, work and process like a scientist.

What do you observe?

- What are the observable differences?
- What changes over time and/or geographically?

What patterns and relationships can you see?

- What patterns and/or relationships can you see?
- How have changes in science knowledge over time changed the way we see the world?
- What are your questions?
- How have changes in science knowledge over time changed the way we see the world?
- What is the time scale over which these changes occur?
- Is your question investigable?

What do you predict will happen?

- What do you see/hear/smell/taste/feel?
- What features and/or properties are the same?
- What changes when you shift your perspective?
- What do you predict will happen?
- What is interesting/unexpected?

What investigations could you design?

- Which variables will you control?
- How can you use collaboration?
- Where do you find connections across the disciplines?
- What do you notice about this data/information?
- What is interesting/unexpected?
How can you review and communicate?

Can you use a model to explain what you found out or how your idea works?

So what?
What next?

Can you use a model to help describe, simplify, clarify or provide an explanation of the working structure or relationship within an object, system or idea?

Who might need to know this? Why?
Which of your decisions might this understanding influence? How?
Which other science might help us understand this and/or make this decision?
What else could you/would you need to investigate?
How do we know this?
Which sources give you the most confidence that the information is accurate?