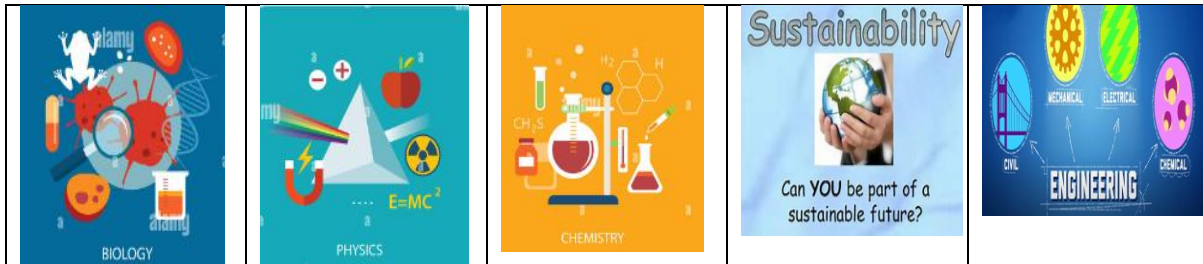


# Beit Shvidler Science

## Substantive Knowledge



**Substantive Knowledge is the knowledge that we want the children to gain by the end of Year 6.**

**Chemistry – The study of matter and it's reactions and properties.**

**Biology - The study of living organisms.**

**Physics - The study of forces and motion.**

**Sustainability - using natural resources in a way that we could keep doing for a long time.**

**Engineering - Thinking about problem solving and identifying good solutions to problems.**

## Disciplinary Knowledge

**Disciplinary knowledge is how the children apply their knowledge as scientific skills**

- 1) Recognise
- 2) Identify
- 3) Explore
- 4) Research**
- 5) Describe
- 6) Compare

- 7) Conclude
- 8) Design
- 9) Sequence
- 10) Record**
- 11) Predict
- 12) Interpret**
- 13) Observe**
- 14) Fair Test
- 15) Plan
- 16) Invent
- 17) Ask (Follow Up Questions)**
- 18) Invent
- 19) Explain
- 20) Measure**
- 21) Communicate**
- 22) Evaluate**

Our Scientists will leave Beit Shvidler with an understanding of how the world works through the lens of Science. You will have an appreciation, respect and awe for the natural world which will enable you to become a responsible and active citizen. Through the approach of working scientifically, you will be confident to hypothesise, test and evaluate your predictions. You will start to examine how information is constructed and how testing can be fair. Through science, Beit Shvidler children will also develop the skills of observation that will allow them to ask questions, think deeply and understand how building a basis of scientific evidence will help them to reach rational conclusions. Our scientists will understand the engineering process and how to think with curiosity and an open mind to solve problems.