

## Social Studies

What do people need to live?  
How have inventors and scientists made our lives better?  
What difficulties does the world face now?  
What problems did people in the past face? What reduced these difficulties? Were there any problems caused as a consequence?

## Science

How does the world work?  
What is the water cycle and why is it important? (including states of matter).  
How are food chains organized?  
Why are some scientists famous?  
What did they do?

## Math/Problem Solving

Following Whiterose.  
  
Additional-using data to find out more about the world.  
Understanding graphs and pie charts about climate change/plastic use etc.

## Literacy/Language Acquisition

Iron man-ideas for dealing with rubbish and problems in the future-narrative writing.  
Writing explanations of inventions/scientific experiments.  
Biographies of famous scientists/inventors.  
Historical reports.

## Concepts

What are the reasons for the difficulties the world faces now e.g. climate change/plastic in the oceans etc-causation.  
What is an inventor?-Form.  
Connection activity-how are developments and problems related?

## How the World Works.

**Central Idea:** Scientific advancements and inventions have improved life for humans in the past. What problems are we encountering now and in the future? Can science help?

### Lines of Inquiry:

What do we need to live?  
What problems have there been in history that were solved through scientific advancements?  
What problems is the world facing now?  
How do inventors invent?  
How can we share our findings with others? How can we make a difference?

## Visual and Performing Arts

Andy Goldsworthy/the history of scientific advancements through art e.g. Leonardo Da Vinci inventions and Joseph Wright-Bird in a jar painting.

## Learner Profile & Attitudes:

Knowledgeable  
Open minded  
Communicators  
Inquirer

## Planning for Action

#Leighideas2018  
Science Fair for parents and pupils.  
(Should we rely on science or should we take responsibility?)

## ATL--THINKING

- Acquisition of Knowledge
- Comprehension
- Application
- Analysis
- Synthesis
- Evaluation
- Dialectical Thought
- Metacognition

## ATL--SELF-MANAGEMENT

- Gross Motor Skills
- Fine Motor Skills
- Spatial Awareness
- Organization
- Time Management
- Safety
- Healthy lifestyle
- Codes of Behaviour
- Informed Choices

## ATL--COMMUNICATION

- Listening
- Speaking
- Reading
- Writing
- Viewing
- Presenting
- Non-verbal Communication
- ATL--SOCIAL SKILLS
- Accepting Responsibility
- Respecting Others
- Cooperating
- Resolving Conflict
- Group Decision-making
- Adopting various group roles

## ATL--RESEARCH

- Formulating Questions
- Observing
- Planning
- Collecting Data
- Recording Data
- Organizing Data
- Interpreting Data
- Presenting Research Findings