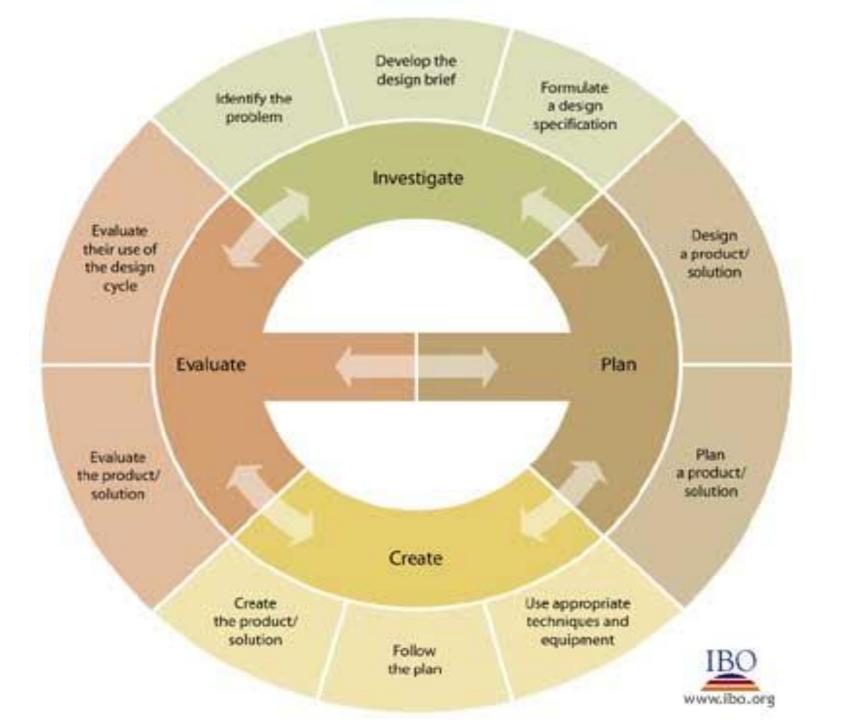
Information Technology Design Model



During the **Investigation**, students should:

- recognize the extent of the use of technology in their surroundings, and in the world
- research historical and cultural developments in technology
- analyze specific situations and needs
- analyze the environmental and social impact of technological processes and products
- explore simple and complex technological objects and processes
- consider attitudes and values relating to technological change

During the **Planning** stage, students should:

- develop 'brain-storming' skills
- research methods and techniques, using a variety of sources
- use ideas and information from a broad range of sources and cultures
- develop strategies for the management of resources and time
- test a variety of techniques
- devise or interpret a design specification
- review plans and proposals critically
- acknowledge all sources of information and ideas

During the **Creation** stage, students:

- should use tools and techniques safely and efficiently
- should follow their design specification
- should adjust their work plan if necessary
- may develop models and prototypes
- may make products to detailed specifications and standards
- may work cooperatively
- should adapt to new ideas, constructive criticism and suggestions
- should follow a schedule

During the **Evaluation** stage, students should:

- compare the product/solution to the original need
- assess the aesthetic and practical qualities of the product/solution
- suggest ways of improving the fit and quality of the product/solution
- assess the efficiency of the process and suggest ways of improving it
- reflect on their own involvement at every stage of the design process
- recognize the possible cultural dimensions of the project
- reflect on their overall performance and, where relevant, that of the group