

Transferable Skills for Quantitative and Analytical Types

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Advanced Quantitative and Scientific Skills

- Computational ability
- Ability to organize, analyze and interpret numerical and scientific data
- Ability to organize and memorize detailed information
- Ability to think logically and critically and make analogies
- Accuracy and attention to detail
- Computer literacy
- Ability to identify a problem, recognize its source, evaluate hidden assumptions and develop new solutions
- Ability to analyze problems and make appropriate decisions
- Ability to master new computer languages and methodologies
- Ability to work well under pressure
- Patience
- An understanding of how to effectively reveal and explain patterns using numerical information
- Ability to construct and evaluate arguments with scientific and quantitative components
- Ability to understand and interpret the world using a mathematical model
- Ability to find general patterns within specific problems to enhance an understanding of key issues
- Skills to study data to establish causes and effect or co-relational relationships
- Ability to examine streams of data to discover properties which could predict future data
- Knowledge of how mathematical and scientific models can change perceptions of the world and the social implications these

perceptions have on actions and decision-making

- Knowledge of how to construct systems and models to simulate situations for testing purposes
- Skill in creating theoretical models and simulations for use in interpreting/understanding information
- Understanding of the process for testing hypotheses to determine risk and cost/benefit factors
- Understanding and writing detailed, technical information, reports, and presentations
- Ability to make careful measurements using equipment and scientific instrumentation

Transferable Liberal Arts Skills

- Communication Skills
- Use various forms and styles of written communication
- Speak effectively to individuals and groups
- Use media formats to present ideas imaginatively
- Identify and communicate value judgments effectively
- Convey a positive self-image to others

Information Management and Research Skills

- Identify resources and gather information appropriate to special needs or problems
- Formulate questions relevant to clarifying a particular problem, topic or issue
- Apply information creatively to specific problems
- Synthesize facts, concepts and principles
- Evaluate information against appropriate standards

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Planning and Management Skills

- Identify alternative courses of action
- Establish priorities, manage time and meet deadlines
- Manage a project from conception to completion
- Accommodate multiple demands for commitment of time, energy and resources

Interpersonal and Teamwork Skills

- Interact effectively with peers, superiors and subordinates
- Contribute to teamwork through leading, teaching, motivating others
- Identify, plan and contribute to team goals
- Demonstrate effective social behavior in a variety of settings and under different circumstances
- Analyze behavior of self and others in group situations

Critical Thinking Skills

- Identify quickly and accurately the critical issues when making a decision or solving a problem
- Adapt one's concepts and behavior to changing conventions and norms
- Apply appropriate criteria to strategies and action plans
- Create innovative solutions to complex problems
- Analyze the interrelationships of events and ideas from several perspectives

Valuing Skills

- Assess a course of action in terms of its long-range effects on the general human welfare
- Make decisions that will maximize both individual and collective good
- Appreciate the contributions of art, literature, science and technology to contemporary society
- Identify one's own values and assess one's values in relation to important life decisions

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