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|  | **Galileo Galilei** | **Isaac Newton** | **Francis Bacon** | **Rene Descartes** |
| **COUNTRY** | **Italy** | **England** | **England**  | **France** |
| **MAJOR PUBLISHED WORK** | **Dialogue on the 2 Chief Systems of the World** | **Principia Mathematica-Mathematic Principles**  | **The New Method** | **Discourse Method, Meditations** |
| **MAJOR CONTRIBUTIONS** | **Confirmed heliocentric model (earth around sun, rotates on an axis, moon and stars not perfect spheres), telescope, built on Copernicus, Johannes Kepler,**  | **-Law of Universal Gravitation** **-3 laws of motion****-Calculus**  | **-Scientific Method: how all scientists do their research today** | **Cartesian geometry-algebra****"Ego Cogito Ergo Sum"-I think therefore I am** |
| **SIGNIFICANCE** | **Challenged church interpretation of the Bible, Galileo arrested, tried and put under house arrest** | **Basis of scientific reasoning for centuries, laws on how the universe works** | **Start with observations of phenomenon, THEN make theory, don't start with a theory and try to prove it** | **Rationalism-begin with nothing, prove one fact and then continue proving others** |

 **SCIENTIFIC REVOLUTION**