***JB Suggestions for Filters for PSPs posted as of August 25, 2017, or coming soon (e.g. by 8/31/17)***

**Abstract Algebra**

Top of Form

Bottom of Form

Top of Form

* F8: [Richard Dedekind and the Creation of an Ideal: Early Developments in Ring Theory](http://digitalcommons.ursinus.edu/triumphs_abstract/1/)
* Bottom of Form

**Analysis**

* F13: [Bolzano's Definition of Continuity, his bounded set Theorem, and an application to continuous functions](http://digitalcommons.ursinus.edu/triumphs_analysis/9/)
* F14: [Rigorous Debates over Debatable Rigor: Monster Functions in Introductory Analysis](http://digitalcommons.ursinus.edu/triumphs_analysis/10/)
* F20: [Investigations Into d'Alembert's Definition of Limit.](http://digitalcommons.ursinus.edu/triumphs_analysis/8/)
* F21: [An Introduction to a Rigorous Definition of Derivative.](http://digitalcommons.ursinus.edu/triumphs_analysis/7/)
* F22: [Investigations Into Bolzano's Formulation of the Least Upper Bound Property](http://digitalcommons.ursinus.edu/triumphs_analysis/6/)
* F23: [The Mean Value Theorem](http://digitalcommons.ursinus.edu/triumphs_analysis/5/)
* F24: [Abel and Cauchy on a Rigorous Approach to Infinite Series](http://digitalcommons.ursinus.edu/triumphs_analysis/4/)
* F25: [The Definite Integrals of Cauchy and Riemann](http://digitalcommons.ursinus.edu/triumphs_analysis/7/)
* M17: [Why be so Critical? Nineteenth Century Mathematical and the Origins of Analysis](http://digitalcommons.ursinus.edu/triumphs_analysis/1/)
* M18: [Topology from Analysis: Making the Connection.](http://digitalcommons.ursinus.edu/triumphs_topology/1/)
* M20: [The Cantor Set before Cantor](http://digitalcommons.ursinus.edu/triumphs_topology/2/)
* M25: [Henri Lebesgue and the Development of the Integral Concept](http://digitalcommons.ursinus.edu/triumphs_analysis/2/)

**Axiomatic mathematics** - **not sure what this is? Would F6 fit here? If not, what do we have slated that would? Consider deleting this category?**

**Calculus**

* M3: [The Derivatives of the Sine and Cosine Functions](http://digitalcommons.ursinus.edu/triumphs_calculus/1/)
* M 15: Sequences and the Arithmetic-Geometric Mea

**Complex Numbers**

* F26: [Gaussian Integers and Dedekind's Creation of an Ideal: A Number Theory Project](http://digitalcommons.ursinus.edu/triumphs_number/3/)

**Differential Equations – we don’t have anything slated for this category, do we? Consider deleting this category?**

**Discrete Mathematics**

* F4: [Investigating Difference Equations.](http://digitalcommons.ursinus.edu/triumphs_discrete/1/)

F26: [Gaussian Integers and Dedekind's Creation of an Ideal: A Number Theory Project](http://digitalcommons.ursinus.edu/triumphs_number/3/)

* *F19:* [*Pascal's Triangle and Mathematical Induction.*](http://digitalcommons.ursinus.edu/triumphs_number/5/) *- maybe?? Level may not be appropriate*
* *Some of the other number theory PSPs may be a good fit here too?*

**Foundations of Math** – **– we don’t have anything slated for this category, do we? Consider deleting this category? Please change this to “Foundations of Mathematics” if we keep it.**

**General Education**

* F18: [Construction of the Figurate Numbers.](http://digitalcommons.ursinus.edu/triumphs_number/4/)
* F19: [Pascal's Triangle and Mathematical Induction.](http://digitalcommons.ursinus.edu/triumphs_number/5/)
* M1: [Babylonian numeration](http://digitalcommons.ursinus.edu/triumphs_number/2/)
* M26. Generating Pythagorean Triples via Gnomons

**Geometry**

* F6: [The Exigency of the Parallel Postulate.](http://digitalcommons.ursinus.edu/triumphs_geometry/1/)
* F7: [The Failure of the Parallel Postulate.](http://digitalcommons.ursinus.edu/triumphs_geometry/2/)

**Linear Algebra**

* F3. Solving a System of Linear Equations Using Elimination

**Number Theory**

* F9: [Primes, divisibility, and factoring](http://digitalcommons.ursinus.edu/triumphs_number/1/)
* F10. The Pell equation in Indian Mathematics
* F26: [Gaussian Integers and Dedekind's Creation of an Ideal: A Number Theory Project](http://digitalcommons.ursinus.edu/triumphs_number/3/)

**Pre-calculus and Trigonometry**

* F1: [A Genetic Context for Understanding the Trigonometric Functions](http://digitalcommons.ursinus.edu/triumphs_precalc/1/)

**Statistics and Probability**

* F5. Quantifying certainty: the p-value

**Topology**

* M18: [Topology from Analysis: Making the Connection.](http://digitalcommons.ursinus.edu/triumphs_topology/1/)
* M19: [Connecting Connectedness.](http://digitalcommons.ursinus.edu/triumphs_topology/3/)
* M20: [The Cantor Set before Cantor](http://digitalcommons.ursinus.edu/triumphs_topology/2/)
* M21: [A compact introduction to a generalized extreme value theorem](http://digitalcommons.ursinus.edu/triumphs_topology/5/)
* M23: [The closure operation as the foundation of topology.](http://digitalcommons.ursinus.edu/triumphs_topology/4/)
* M24: [Euler's Rediscovery of e.](http://digitalcommons.ursinus.edu/triumphs_analysis/3/)

**New filters to consider adding:**

**History of Mathematics *(or do we not want to make particular suggestions here?)***

* F1: [A Genetic Context for Understanding the Trigonometric Functions](http://digitalcommons.ursinus.edu/triumphs_precalc/1/)
* F3. Solving a System of Linear Equations Using Elimination
* F6: [The Exigency of the Parallel Postulate.](http://digitalcommons.ursinus.edu/triumphs_geometry/1/)
* F7: [The Failure of the Parallel Postulate.](http://digitalcommons.ursinus.edu/triumphs_geometry/2/)
* F9: [Primes, divisibility, and factoring](http://digitalcommons.ursinus.edu/triumphs_number/1/)
* F10. The Pell equation in Indian Mathematics
* F18: [Construction of the Figurate Numbers.](http://digitalcommons.ursinus.edu/triumphs_number/4/)
* F19: [Pascal's Triangle and Mathematical Induction.](http://digitalcommons.ursinus.edu/triumphs_number/5/)
* M1: [Babylonian numeration](http://digitalcommons.ursinus.edu/triumphs_number/2/)
* M3: [The Derivatives of the Sine and Cosine Functions](http://digitalcommons.ursinus.edu/triumphs_calculus/1/)
* M17: [Why be so Critical? Nineteenth Century Mathematical and the Origins of Analysis](http://digitalcommons.ursinus.edu/triumphs_analysis/1/)
* M26. Generating Pythagorean Triples via Gnomons

**Pre-service Elementary Teachers (content courses)**

* F18: [Construction of the Figurate Numbers.](http://digitalcommons.ursinus.edu/triumphs_number/4/)
* M1: [Babylonian numeration](http://digitalcommons.ursinus.edu/triumphs_number/2/)
* M26. Generating Pythagorean Triples via Gnomons

**Pre-service Secondary Teachers (Capstone Courses) –PSPs used in such courses to date listed below**

* M1: [Babylonian numeration](http://digitalcommons.ursinus.edu/triumphs_number/2/)
* M17: [Why be so Critical? Nineteenth Century Mathematical and the Origins of Analysis](http://digitalcommons.ursinus.edu/triumphs_analysis/1/)