



## STEM Expo 2018

### Category Revisions from Scientific Inquiry (with examples)

Beginning in the 2018 STEM Expo season, the previous category of Scientific Inquiry has been replaced with exciting new options. Three of the new definitions are listed below along with some 2016 example student project titles which were previously submitted as Scientific Inquiry. *Please note: as always, projects can be submitted into more than one category.*



#### **Intelligence & Behavior**

Covers the study of the mind and its processes.

*Example projects (previously submitted as Scientific Inquiry):*

- Which Ages Best Understand Emojis?
- Does the Tempo of Background Musics Affect Cognitive Processes?
- How Do Video Games Affect Mood?
- How does light affect mood?
- Do Colors Affect The Taste Of Drinks?
- Does Your Appearance Influence The Way People Perceive You?
- Are Rodents the Best Problem Solvers?



#### **Living Things**

Includes anything to do with biological organisms.

*Example projects (previously submitted as Scientific Inquiry):*

- Which Preservatives will inhibit the growth of bacterial microorganisms
- Are Vitamin B12 Injections or Capsules More Absorbent In Blood?
- Do Lavender or Rosemary Essential Oils Work Better On Dog Bacteria?
- What is the effect Of Electromagnetic Radiation On The Growth Of Radish Plants?
- Which Gives Off the Most Insulation? Fat or Muscle
- What is the Effect Of Colloidal Silver On Bacteria
- Which Exercises increases your Heart Rate the Most?
- Cockroach Feeding Behavior in Constant Light and Dark



#### **The Physical Universe**

Covers non-biological sciences: chemistry to astronomy, earth sciences to quantum mechanics, etc.

*Example projects (previously submitted as Scientific Inquiry):*

- Black Holes In The Universe
- Do Electromagnetic Waves Work Better In Different Weather?
- Does Heat Affect How high A Ball bounces?
- Is Earth-Friendly Concrete Stronger Than Traditional Portland Cement?
- Which Paper Airplane Flies Best?
- How does Wind Speed Affect how Quickly an Object Cools?
- High Acids V.S Low Acids: Which food waste creates the most energy