ComPADRE Submission Information:

Purpose:

As a part of its community building efforts, the ComPADRE collections allow all logged-in users to submit items for consideration by the editors. If these items meet the basic standards of ComPADRE, they are cataloged by the librarians and the information made available for all ComPADRE users. The goal is to allow users to share educational resources that either they have created or that they have found to be useful. Examples include websites, books, simulations, videos, lesson plans, and equipment vendors. All items must either be available on the web, or have a web page with information about the resource and how to obtain it.

Submissions can be made from any of the ComPADRE collections.

Structure:

Below are the information fields that are available for submitting an item to ComPADRE for consideration. The required information, the first six fields, is shown in bold. In the submission form, only one selection per field is allowed but when cataloged, multiple selections are possible. Submitters who wish to supply additional information can use the last "Info" field.

Field	Description	Comments
Language	The language of the information submitted (not the material).	English by default.
General Subject	A general topic of the item, such as Classical Mechanics or Astronomy.	The vocabulary for these items is listed below.
Specific Subject	A more detailed topic of the item. Specific subjects depend upon the General Subject selected.	The vocabulary is listed below for each general subject.
URL	URL of the submitted item.	This is the web address used to find the item.
Title	A title for the item.	Most web pages include a title.
Description	A brief description of the material.	Because users search on this description, it should be accurate but brief.
Intended User Level	The grade level for which the material is appropriate.	This is the class grade where the resource will be in use.

Intended User Role	The type of user who will be directly using the materials.	The vocabulary is listed below, with examples.
Resource Type	The educational usage or type of material, such as curriculum, reference material, or student activity.	This indicates how the material will best be used. The vocabulary is rather detailed.
Format	Digital format of the material, generally the MIME type.	This is standard application types.
Cost	Indicate whether or not there is a cost for use of the item.	Items “May” have a cost depending on use or user.
Restrictions	This is the copyright or other intellectual property rights restrictions on the item.	Most items on the web can be considered to be copyrighted.
Author	The creator or publisher of the item.	Information such as name, address, and email are appreciated.
Info	Further information for the editors.	This might include information to help review the item.

Vocabularies:

Listed below are the vocabularies for the information fields listed above that have their entries fixed.

Subjects:

The following subject list is based on the PIRA Demonstration Classification Scheme. Specific subjects are based on the general subject. Only the appropriate specific subjects will be displayed once a general subject is selected.

General Subject	Specific Subject	Comments
Astronomy	Astrobiology, Astronomical Instruments, Astronomy Education, Compact Objects, Early Universe, Galaxies, General Astronomy, Historical Astronomy, Jovian Planets, Large-Scale Structure, Milky Way, Normal Stars, Outer Solar System, Planet Formation, Planetary Atmospheres, Planetary Geology, Space Exploration, Stellar Astronomy, Sun, Terrestrial Planets	Several old subjects will soon be removed and items re-classified. These are: None, Planetary Astronomy, Cosmology Do NOT use these specific subjects.
Classical Mechanics	None, Motion in One Dimension, Motion in Two Dimensions, Relative Motion, Newton's First Law, Newton's Second Law, Newton's Third Law, Applications of Newton's Laws, Statics of Rigid Bodies, Gravity, Work and Energy, Linear Momentum, Rotational Dynamics	The break-down of Newton's Laws into several specific subjects may cause some difficulty, but allows for more specific classification of items.

Electricity and Magnetism	Capacitance, DC Circuits, Electric Fields and Potentials, Electromagnetic Induction, Electromagnetic Radiation, Electromotive Force and Currents, Electrostatics, Inductance, Magnetic Fields and Forces, Magnetic Materials, None, Resistance, Semiconductors and Tubes	
Fluid Mechanics	Dynamics of Fluids, None, Statics of Fluids, Surface Tension	
General Physics	None, Equipment, Collections, Curriculum, History, Mathematical Physics, Reference Material, Properties of Matter, Measurement/Units, Physics Education Research, Vector Algebra	This includes general collections with a number of different topics.
Modern Physics	Atomic Physics, Chaos & Non-Linear Dynamics, Condensed Matter, Elementary Particles, None, Nuclear Physics, Plasma Physics, Relativity	
Optics	Color, Diffraction, Geometrical Optics, Interference, Lasers, Modern Optics, None, Photometry, Polarization, The Eye	
Oscillations & Waves	Acoustics, Instruments, None, Oscillations, Pendulum Motion, Sound Reproduction, Wave Motion	
Other Sciences	None, Chemistry, Environmental Science, Geoscience, Engineering, Mathematics, Computer Science	This probably will be expanded to meet larger needs.

Quantum Physics	Approximation Techniques, Bound State Systems, Entanglement and Quantum Information, Foundations and Measurement Theory, General, Multi-particle Systems, Probability Waves and Interference, Relativistic Quantum Mechanics, Scattering and Continuum State Systems, Spin and Finite Dimensional Systems, Symmetries in Quantum Mechanics	
Thermodynamics & Statistical Mechanics	Change of State, Entropy and the Second Law, Gas Law, Heat and the First Law, Kinetic Theory, None, Thermal Properties of Matter	

Intended User Level: (Grade Levels)
This describes the Educational Level of the Object.

Name	Description
K-4	Primary Education
5-8	Secondary Education
9-12	High School
LLUG	Lower Level Undergraduate
ULUG	Upper Level Undergraduate
Grad	Graduate School
Public	General Public/Informal Ed

Intended User Roles:

Roles of the potential end user for the learning object.

Name	Description
Author	Person responsible for development of content to be presented to learners. This is often the content expert.
Designer	Person responsible for the creation and realization of learning objects and/or environments. This is often an instructional designer.

Learner	Students or others involved in obtaining new information, knowledge, or skills.
Manger	Person responsible for managing a group, organization, or association, also educational administrators.
Researcher	Person studying a topic or the learning processes for a topic
Teacher	Person responsible for conducting a class or other instructional setting.

Resource Types:

The different types of resources, mainly different usages.

Name	Description
Activity	A task or exercise that students are asked to do–often as part of a lesson plan or other larger unit of instruction–to help them develop particular skills, knowledge, or habits of mind.
Animation	The dynamic and visual representation of concepts, models, processes, and/or phenomena that allow users to view, on their own, such processes in space or time. It is distinct from a simulation because a simulation provides control over the process by the user.
Best Practice	The processes, practices, or systems identified in public and private organizations that performed exceptionally well and are widely recognized as improving an organization's performance and efficiency.
Collection	This can be a collection of web sites or a collection of subject specific or multi-subject resources.
Community	Education listservs, websites, and other online communities–forums for exchanging ideas around particular education topics or challenges.
Course	A sequence of instructional units, often a semester long, designed by a teacher (or a faculty or other group of teachers) to advance significantly student skills and knowledge.
Curriculum	Academic standards–the knowledge, skills, and habits of mind students are expected to acquire in particular grade levels (or clusters of grade levels)–and the units of instruction.
Curriculum Support	The equipment, facilities, tools, materials, and personnel available for the teaching of the curriculum.
Data Set	A resource containing only numeric, spatial, spectral, or statistical data. A report of research containing a data set should be assigned the resource type “Research Study.”

Drill and Practice	Activities that require users to respond repeatedly to questions or stimuli presented in a variety of sequences. These exercises allow users to practice on their own and at their own pace.
Educator's Guide	A guide intended for use by educator's as a supplement to a lesson or unit plan.
Event	A non-persistent, time-based occurrence.
Figure	Figure
Graph	Graph showing data related to a content area.
Image Set	A set of images and photographs of physical objects, paintings, prints, drawings, other images and graphics, animations and moving pictures, film, diagrams, maps, and musical notation.
Laboratory	Materials used in, or to supplement, a physical, hands-on investigation
Lecture/Presentation	Lecture and presentation support materials such as presentation graphics (e.g.PowerPoint slide shows), lecture notes, or audio visual materials that are not intended to be used outside the presentation.
Lesson Plan	A plan for helping students learn a particular set of skills, knowledge, or habits of mind. Often includes student activities as well as teaching ideas, instructional materials, and other resources.
Project	Activities organized around a particular academic topic or challenge in which students participate.
Questionnaire	Questionnaire
Quiz/Test	This can be any assessment device intended to serve as a test or quiz.
Reference	A comprehensive, systematically organized collection of information such as a dictionary, encyclopedia, or almanac. Material similar to that found in the reference area of a library.
Research Study	A resource that reports the results of research. A resource containing only a data set resulting from research should be assigned the resource type "Data Set."
Serial	Publications in any medium issued in successive parts bearing numerical or chronological designations and intended to be continued indefinitely.
Service	Any online service and/or assistance that functions either as an intermediary between the user and online data and information (e.g., an online question-and answer service such as AskERIC)

Simulation	An activity where users participate in an approximation of a real or imaginary experience where their actions effect the outcome of the activity. Distinct from an "Animation" because if user control.
Study Guide	A guide created to provide students with hints, techniques, or management ideas in a particular area.
Table	Table of data regarding a content area.
Tutorial	Sequentially organized information and activities with specific instructional objectives structured to integrate conceptual presentation, demonstration, practice, and testing to teach specific concept.
Unit of Instruction	A sequence of lesson plans designed to teach a set of skills, knowledge, and habits of mind.

Formats:
This metadata describes the digital format (MIME type) of the object.

Name	Description
Application/exe	Executable (OS dependent)
Application/flash	Flash
Application/java	Java applet
Application/maple	Application (Math)
Application/mathematica	Application (Math)
Application/matlab	Application (Math)
Application/ms-excel	Application (Math)
Application/ms-powerpoint	Application (Presentation)
Application/ms-word	Text (MS Word)
Application/pdf	Adobe pdf format
Application/postscript	Text (Postscript)
Application/shockwave	Shockwave/Director
Application/zip	Zip Archive
Audio/mpeg	Audio file
Audio/realaudio	Audio file
Audio/wav	Audio file
Image/gif	Image
Image/jpeg	Image
Model/vrml	Image (3D modeling language)
Non-digital	Other formats
Text/HTML	Text
Text/Plain	Text
Video/mpeg	Video
Video/quicktime	Video
Video/realvideo	Video