

NASA SMD Education Product Review

Final Recommendations – What Each Really Means

Recommended: The product is an excellent candidate for broad distribution or availability, for example, at education conferences, on a WWW site, etc.

Recommended as is, with revisions on next printing/edition: Note to reviewers: the material may not be re-printed/revised, do not select this option if you believe the revisions are necessary before continued distribution/availability by NASA. (**Provide notes on recommended revisions**).

Recommended -- Distribution through Teacher Workshops: This product is recommended for distribution through NASA teacher training sessions and workshops. Most teachers would require some introduction or training for effective use.

Recommended -- Limited Audience: This product would be useful to limited audience, for example, very advanced users, lower/higher education level than originally identified, a limited topic area/course, a limited geographic area, etc. Provide notes below describing this audience.

Needs Minor Revisions: The overall approach is very good, but **minor** revisions are needed before this product is distributed or recommended by NASA. “**Minor**” is not meant to indicate that the revisions aren’t important to make, but that they can be easily made. The material is generally free of scientific errors/misconceptions or obvious pedagogical problems; if there are errors they can be easily corrected. These products are not required to go back through the panel review process once they have been revised.

Examples of minor revisions include:

- Few text edits/minor text additions (e.g., grammatical errors, misspellings, and typos)
- Minor corrections to images or graphics
- Minor re-organizing of the material
- Online Products: a few broken links on a Web site (It is “Minor” due to ease of correcting.)
- Hard Copy Products: broken WWW links in a hard copy product, which are not critical to implementation (e.g., links to further reading/information).

Needs Medium Revisions: The overall approach is sound, but revisions are required before this product is distributed or recommended by NASA. Depending on the extent of revisions to be made, NASA education program managers may require these products to go back through the panel review process after they have been revised.

Examples of medium revisions include:

- Large number of text edits/additions throughout the material (e.g., grammatical mistakes, typos, misspellings)
- Corrections to more than a few images or graphics
- Sections that suffer from organizational or presentational difficulties
- Numerous broken links on a Web site

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- Several broken Web links on a hard copy product, which are not critical to the implementation of the product (e.g., links to further information/research)
- Few scientific errors/misconceptions (perhaps limited to a single section, chapter, unit or lesson)
- Isolated sections/chapters/units/or lessons that contain obvious pedagogical problems

Needs Major Revisions: This product has potential, but **major** revisions are required to the overall approach before it is distributed or recommended by NASA. Products that are recommended for “major revisions” are required to go back through the panel review process after they have been revised.

Examples of major revisions include:

- Numerous or major scientific errors/misconceptions.
- Serious problems with the overall approach to the subject, organization, structure, or presentation that renders it ineffective or difficult to use.
- Pedagogical approach needs significant work for the intended audience (e.g., reading level, cognitive approach, scope/sequence, etc.).
- Broken links in a printed document, which are critical to the implementation of the product.

Not Recommended: NASA should take this product out of circulation/not release it as a Science Mission Directorate science education product. The quality is poor, the material dated, or it is not relevant to NASA's Science Mission Directorate.