<table>
<thead>
<tr>
<th>INQUIRE</th>
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<th>CREATE</th>
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<tbody>
<tr>
<td>Exploring a topic &amp; planning ahead</td>
<td>Strategically searching &amp; retrieving information</td>
<td>Assessing information for validity &amp; need</td>
<td>Citing, using, &amp; managing information</td>
<td>Adding your voice to the conversation</td>
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**Guiding Questions**
- What information do I need to understand my topic?
- What's my plan for gathering information?

**Outcomes**
- Identify possible gaps in existing research on a topic
- Identify valid source types, including information packaged formally and informally
- Articulate how traditional and emerging processes of creation and dissemination affect information sources in a discipline

**Guiding Questions**
- How will I develop a search strategy?
- How will I modify and track my search?

**Outcomes**
- Use advanced techniques to retrieve information
- Persists and adapts search strategies, recognizing the role ambiguous information can play within the research process

**Guiding Questions**
- Do I have what I need?
- What is the information ecosystem?

**Outcomes**
- Formulate new questions based on information gaps or conflicting information
- Evaluate information utility by examining the underlying processes of its creation

**Guiding Questions**
- Is my information valid in context?
- How do I synthesize?

**Outcomes**
- Acknowledge the implications of content that is static or dynamic
- Evaluate information utility by examining the underlying processes of its creation

**Guiding Questions**
- How do I cite?
- How do I manage?

**Outcomes**
- Determine if assembled sources are sufficiently varied in content, format, and viewpoint, depending on the needs and nature of the search
- Acknowledge the authority of scholars of publications in a discipline, allowing for thoughtful challenges to those authorities

**Guiding Questions**
- How do I synthesize?
- Where do I share?

**Outcomes**
- Recognize intellectual property as a legal and social construct that varies by culture
- Use a transparent system for managing complex data and files

**Guiding Questions**
- How do I share?
- Where do I share?

**Outcomes**
- Manage the process of entering the ongoing conversation, considering legal and ethical implications, before disseminating a work publically
- Adhere to best publishing practices, including the rights and responsibilities of authorship in a discipline

**Guiding Questions**
- Managing the process of entering the ongoing conversation, considering legal and ethical implications, before disseminating a work publically
- Adhere to best publishing practices, including the rights and responsibilities of authorship in a discipline
### Guiding Questions

#### Milestone

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<td>What information do I need to understand my topic?</td>
<td>Investigate the evolution of the topic over time</td>
<td>Use a variety of techniques to retrieve information</td>
<td>Modify criteria for evaluating sources against an information need as new insights and discoveries emerge</td>
<td>Articulate research ideas by organizing and reconciling competing ideas</td>
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<td>What's my plan for gathering information?</td>
<td>Determine types of information sources relevant to the topic</td>
<td>Break down complex questions into simple ones to limit the scope of investigations</td>
<td>Select resources from an array of choices, understanding that quality and legitimacy are derived from authority (e.g., subject expertise, societal position, special experience)</td>
<td>Contribute to the conversation as a creator or critic, recognizing choices will impact the use and message of the final product</td>
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<td>Where will I search?</td>
<td>Examine diverse viewpoints and underrepresented perspectives</td>
<td>Identify how information is organized in order to access relevant information</td>
<td>Construct a method for organizing information that works best for the individual or team</td>
<td>Where do I share?</td>
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<td>How will I develop a search strategy?</td>
<td>Use found sources to identify additional resources</td>
<td>What is the information ecosystem?</td>
<td>Formulate reasonable conclusions based on an organized analysis of information</td>
<td>Select dissemination venue and format appropriate to the topic and desired audience</td>
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<td>As new understanding develops, demonstrate mental flexibility to pursue alternate avenues, documenting additions and gaps</td>
<td>Understand the social nature of the information ecosystem, where authorities actively connect with one another and information develops over time</td>
<td>How do I synthesize?</td>
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<td>How will I modify and track my search?</td>
<td>How do I manage?</td>
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<td>What information do I need to understand my topic?</td>
<td>Explore background information on the topic</td>
<td>How will I develop a search strategy?</td>
<td>Create and revise an effective search statement using a variety of strategies</td>
<td>Do I have what I need?</td>
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<td>Determine the scope of an information need and refine the topic</td>
<td>Distinguish differences between various search platforms</td>
<td>Is my information valid in context?</td>
<td>How do I manage?</td>
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<td>Identify who might produce authoritative information on the topic</td>
<td>Locate full text</td>
<td>What is the information ecosystem?</td>
<td>How do I synthesize?</td>
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<td>How will I modify and track my search?</td>
<td>Document search and revision process</td>
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<td>How do I synthesize?</td>
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- **INQUIRE:** Exploring a topic & planning ahead
- **GATHER:** Strategically searching & retrieving information
- **EVALUATE:** Assessing information for validity & need
- **INTEGRATE:** Citing, using, & managing information
- **CREATE:** Adding your voice to the conversation