<table>
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<th>Grade-Level Standard</th>
<th>DLM Essential Element</th>
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| **M.S-CP.1** Describe events as subsets of a sample space (the set of outcomes) using characteristics (or categories) of the outcomes, or as unions, intersections, or complements of other events ("or," "and," "not"); **M.S-CP.2** Understand that two events A and B are independent if the probability of A and B occurring together is the product of their probabilities, and use this characterization to determine if they are independent; **M.S-CP.3** Understand the conditional probability of A given B as \( P(A \text{ and } B)/P(B) \), and interpret independence of A and B as saying that the conditional probability of A given B is the same as the probability of A, and the conditional probability of B given A is the same as the probability of B; **M.S-CP.4** Construct and interpret two-way frequency tables of data when two categories are associated with each object being classified. Use the two-way table as a sample space to decide if events are independent and to approximate conditional probabilities; **M.S-CP.5** Recognize and explain the concepts of conditional probability and independence in everyday language and everyday situations | **M.EE.S-CP.1-5** Identify when events are independent or dependent | **Initial Precursor:**  
- Compare objects for sameness  
- Arrange objects in pairs  
- Contrast objects  
**Distal Precursor:**  
- Classify  
**Proximal Precursor:**  
- Recognize possible outcomes  
- Explain simple events  
- Recognize impossible outcomes  
**Target:**  
- Determine if 2 events are independent or dependent  
**Successor:**  
- Explain compound events |

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A diagram showing the relationship of nodes in the mini-map appears below.
Key to map codes in upper right corner of node boxes:

- **IP** Initial Precursor
- **SP** Supporting
- **DP** Distal Precursor
- **S** Successor
- **PP** Proximal Precursor
- **UN** Untested
- **T** Target

**M.E.E.S-CP.1-5** Identify when events are independent or dependent