**Stage 1 Geography**

**Assessment Type 1: Geographical Skills and Applications Task 3**

**Natural Hazards**

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| **Theme** | Hazards | |
| **Topic** | Natural Hazards – Fire Risk Map | |
| **Assessment Type** | Geographical Skills & Applications Task | |
| **Subject Learning Requirements** | | **Assessment Design Criteria** |
| For this assessment, students are expected to:   * demonstrate knowledge and understanding of the nature and complexity of the interdependence of human and physical environments * use geographical and fieldwork skills, including use of spatial technologies, to examine geographical features * examine geographical implications of a contemporary local issue. | | Specific features:  AE1 Analysis of the interactions between, and interdependence of, people and environments at local, ~~national, or global~~ levels  AE2 Analysis and evaluation of information to determine possible outcomes, make justifiable recommendations, and form conclusions.  Ap1 Application of geographical and fieldwork skills, including the use of spatial technologies, to identify and examine geographical issues. |
| **Task Details** | | |
| Investigate the vulnerability of a local conservation park or area of native vegetation to the risk of fire. Assess the level of risk at different locations in the park to determine the areas that pose the highest level of risk.  Data Collection  As a class we will visit <name of conservation park> to measure and collect the following field data:   * Fire fuel load, refer to the Fire Fuel Hazard assessment for SA at <http://www.environment.sa.gov.au/firemanagement/Fire_and_the_Environment/Assessing_fuel_hazards>   Complete the Fuel Hazard Assessment Data Sheet.   * Location and details, including photographs or sketches, of amenities, fire infrastructure, housing, etc. Record data in a spreadsheet.   Creation of a Fire Risk Map   * Upload the data sheet and spreadsheet to a GIS platform (e.g. Google My Map, ArcGIS online, Spatial Genie) to create a GIS Map. * Using spatial data analysis techniques, manage and manipulate the data to identify the areas with the highest levels of risk to future bushfires.   You may also find the DEWNR Fire Management Maps a useful resource for your spatial analysis:  <http://www.environment.sa.gov.au/firemanagement/Fire_Management_Maps>  Presentation of the Fire Risk Map  Your Fire Risk Map should include:   * Two or more layers of information e.g. fire fuel load data; fire infrastructure etc. * Incorporate relevant photographs, sketches, diagrams, etc. * Written report identifying, describing and explaining the pattern of levels of risk to fire throughout the park (maximum of 500 words)   Your map should be presented within its online platform and must be shared with your teacher.  Assessment conditions:  2 weeks lesson time / homework (including one day for field trip). | | |

**Performance Standards for Stage 1 Geography**

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| - | Knowledge and Understanding | Analysis and Evaluation | Application |
| A | Comprehensive knowledge and understanding of geographical concepts.  Comprehensive knowledge and understanding of natural, built, economic, and/or social characteristics of places. | Insightful analysis of the interactions between, and interdependence of, people and environments at local, national, or global levels.  Comprehensive analysis and evaluation of information to determine possible outcomes, make justifiable recommendations, and/or form conclusions. | Purposeful and well-considered application of a variety of geographical and fieldwork skills, including the use of spatial technologies, to identify and examine geographical issues.  Clear and coherent communication of relevant geographical information, using appropriate subject-specific terminology and visual representations. |
| B | Well-considered knowledge and informed understanding of geographical concepts.  Well-considered knowledge and informed understanding of natural, built, economic, and/or social characteristics of places. | Well-informed analysis of the interactions between, and interdependence of, people and environments at local, national, or global levels.  Detailed and well-considered analysis and evaluation of information to determine possible outcomes, make justifiable recommendations, and/or form conclusions. | Well-considered application of different geographical and fieldwork skills, including the use of spatial technologies, to identify and examine geographical issues.  Clear communication of relevant geographical information, using appropriate subject-specific terminology and visual representations. |
| C | Considered knowledge and understanding of geographical concepts.  Considered knowledge and informed understanding of natural, built, economic, and/or social characteristics of places. | Informed analysis of the interactions between, and interdependence of, people and environments at local, national, or global levels.  Considered analysis and some evaluation of information to determine possible outcomes, make recommendations, and/or form conclusions. | Competent application of geographical and fieldwork skills, including the use of spatial technologies, to identify and examine geographical issues.  Competent communication of generally relevant geographical information, using mostly appropriate subject-specific terminology and visual representations. |
| D | Recognition and basic understanding of some geographical concepts.  Basic awareness and some understanding of aspects of natural, built, economic, or social characteristics of places. | Basic consideration and description of the interactions between, and interdependence of, people and environments at local, national, or global levels.  Superficial consideration of information to describe possible outcomes and recommendations. | Some application of different geographical and fieldwork skills, which may include the use of spatial technologies.  Basic communication of some geographical information, using occasional subject-specific terminology and visual representations. |
| E | Identification of one or more geographical concepts.  Emerging awareness of aspects of natural, built, economic, or social characteristics of places. | Brief or attempted description of the interactions between, or interdependence of, people and environments at local, national, or global levels.  Description of information linked to a possible outcome or recommendation. | Limited application of geographical and fieldwork skills.  Attempted communication of geographical information, with limited use of subject-specific terminology or visual representations. |