| PlanBee D.T. Assessment : LIGHT-UP SIGNS: KS2  |  |  |
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| Plene       Group:         LIGHT-UP SIGNS D.T.       Year:         Term:       Term: |  |  |
| Lesson 1   | Can children suggest reasons why it is helpful to illuminate signs?  |  |
|  | Can children identify distinguishing features of a variety of illuminated signs?   |  |
|  | <ul> <li>Can children investigate ways in which very simple circuits for illuminated signage might be<br/>constructed?</li> </ul>      |  |
| Lesson 2   | Can children suggest some problems with using traditional, incandescent bulbs in products?   |  |
|  | Can children suggest some aesthetic and practical reasons for using LEDs instead?  |  |
|  | Can children construct a circuit with an LED?  |  |
| Lesson 3   | Can children identify potential audiences and purposes for a product design?   |  |
|  | <ul> <li>Can children make practical considerations about how to fit essential components in/on a<br/>product?</li> </ul>              |  |
|  | Can children consider tools and techniques they may need to use when constructing a product of their own design?                       |  |
| Lesson 4   | <ul> <li>Can children identify ways in which their existing designs could be adapted for the materials<br/>available?</li> </ul>       |  |
|  | Can children select appropriate tools and materials for construction of their design?  |  |
|  | Can children identify ways in which they can work safely while constructing their design?  |  |
| Lesson 6 Lesson 5  | Can children recall how to create a simple series circuit with a light?  |  |
|  | <ul> <li>Can children select and use appropriate tools, materials and components to construct a circuit?</li> </ul>                    |  |
|  | Can children decide on an appropriate way to fit electrical components inside their designs?   |  |
|  | Can children identify products which contain microcontrollers which control lights?  |  |
|  | <ul> <li>Can children make algorithms with simple sets of instructions which describe how a flashing<br/>LED is controlled?</li> </ul> |  |
|  | Can children write or edit programs to control an LED?   |  |

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