

**Tevkpi I wkfg
ILU- I nqdg Cnwuvgt**

- 1 [1] Allow 1 credit for *D*.

- 2 [1] Allow 1 credit. Acceptable responses include, but are not limited to:
 - because force *X* and force *Y* are equal
 - Forces *X* and *Y* are equal and opposite to keep the globe in a fixed position.
 - When forces *X* and *Y* are balanced, the object will not change its motion.

- 3 [1] Allow 1 credit for *A*.

- 4 [1] Allow 1 credit for *B*.

- 5 [1] Allow 1 credit. Acceptable responses include, but are not limited to:
 - Since the globe is at a lower position, the potential energy is less.
 - The potential energy decreases as the globe moves from position 1 to position 2.
 - the potential energy decreases

**Ivg o Ankip o gpv
ILU – I nqdg Cnwuvgt**

Ivg o Pw o dgt	Rgthqt o cpeg Gxrgevcvkqp
1	MS-PS2-5
2	MS-PS2-2
3	MS-PS2-3
4	MS-PS2-2
5	MS-PS3-2

5 [1] Allow 1 credit for *B*.

Ivg o Ankip o gpv
ILU – Ipxgukivkpi Cjgokecn Tgcevkqpu Cnwuvgt

Ivg o Pw o dgt	Rgthqt o cpeg Gxrgevcvkqp
1	MS-PS1-2
2	MS-PS1-1
3	MS-PS1-5
4	MS-PS1-2
5	MS-PS1-6