

## Mark schemes

**Q1.**

B

[1]

**Q2.**

A

*There is no reaction to form water because the molecules do not collide with sufficient energy.*

[1]

**Q3.**

B

*At a given temperature their average kinetic energy is constant*

[1]

**Q4.**

D

*The mean energy of the molecules is greater than the most probable energy of the molecules*

[1]

**Q5.**

D

[1]

**Q6.**

D

[1]

**Q7.**

A

*There are no molecules with zero energy.*

[1]

**Q8.**

A

[1]

**Q9.**

D

[1]

**Q10.**

A

[1]

**Q11.**

C

[1]

**Q12.**

B

[1]

**Q13.**

A

[1]

**Q14.**

C

[1]

**Q15.**

C

[1]