

4.3 AKTIVITI PERBINCANGAN

Faktor-faktor yang mempengaruhi kadar tindak balas

Factors affecting the rate of reaction **Praktis Kendiri**

PBD
Kontekstual

Buku teks m.s. 125 – 134

Lengkapkan ruang dalam rajah di bawah dengan perkataan yang betul tentang faktor-faktor yang mempengaruhi kadar tindak balas. / Complete the spaces in the diagram below with the correct words about the factors affecting the rate of reaction. **SP4.2.1 TP2**

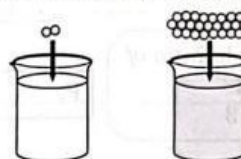
Banyak More	Luas permukaan Surface area	Meningkat Increases	Laju Faster	Besar Larger
Tenaga kinetik Kinetic energy	Memampatkan Compress	Isi padu Volume	Berlanggar Collide	Kerap Frequently

1 Saiz bahan tindak balas pepejal The size of solid reactants



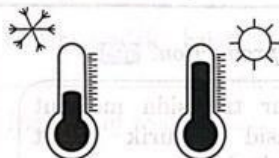
Semakin kecil saiz bahan tindak balas pepejal, semakin _____ jumlah _____ bahan yang terdedah. Maka, kadar tindak balas _____.
The smaller the size of solid reactants, the _____ the total _____ of the exposed substance. Thus, the rate of reaction _____.

2 Kepekatan bahan tindak balas The concentration of reactants



Semakin pekat suatu bahan tindak balas, semakin _____ bilangan zarah per unit _____. Maka, kadar tindak balas _____.
The more concentrated a reactant, the _____ the number of particles per unit _____. Thus, the rate of reaction _____.

3 Suhu bahan tindak balas The temperature of reactants



Semakin tinggi suhu bahan tindak balas, zarah-zarah mengandungi lebih banyak _____ dan bergerak dengan lebih _____. Maka, kadar tindak balas _____.
The higher the temperature of reactants, the particles contain more _____ and move _____. Thus, the rate of reaction _____.

Faktor-faktor yang mempengaruhi kadar tindak balas Factors affecting the rate of reaction

4 Mangkin/Catalysts

Mangkin _____ kadar tindak balas.
Catalyst _____ the rate of reaction.

5 Tekanan/Pressure

Penambahan tekanan akan _____ gas. Zarah-zarah gas _____ dengan lebih _____. Maka, kadar tindak balas _____.
Increasing the pressure will _____ the gas. Gas particles _____ more _____. Thus the rate of reaction _____.



AKTIVITI HANDS-ON

Eksperimen Wajib 6 – 9: Faktor-faktor yang mempengaruhi kadar tindak balas (Buku Suplemen: m.s. 30 – 45).
Compulsory Experiment 6 – 9: The factors affecting the rate of reaction (Supplementary Book: pp. 30 – 45).