

**Umm Al Arab School**  
**Science Department: Grade 9**  
**2021 / 2022**  
**Topic: Work and Energy**

**Activity 1:**

If you push a book 1,5m across the table using a constant force of 10,0 N, how much work have you done on the book?

Show all the working out

$$\begin{aligned} \text{Work} &= \boxed{\phantom{000}} \times \boxed{\phantom{000}} \\ &= \boxed{\phantom{000}} \times \boxed{\phantom{000}} \\ &= \boxed{\phantom{000}} \end{aligned}$$



**Activity 2:**

Hamdan did 2500 J of work to push a table 2m. What was the force that he used?

Final answer only!

Force is \_\_\_\_\_.



**Activity 3:**

In a game of basketball, when you throw the ball into the basket, is work done? Explain your answer.

\_\_\_\_\_



**Activity 4:**

In a game of tug of war, each side pulls with a force of 100 N. Is there any work done? Explain your answer.

\_\_\_\_\_