**A máquina de calor**

**Material**

- hélice

- suporte

- lamparina

- copo plástico

- água

- álcool

- recipiente com tubo de saída

**Cuidado! Não deixem o álcool próximo da chama!**

Usem a seringa para colocar álcool na lamparina. Acendam a lamparina. Coloquem um pouquinho (bem pouco) de água no vidrinho e aqueçam-na rapidamente, depois mergulhem o “bico” na água do copo para que a água entre no vidrinho. Ajustem a posição do vidro para que fique sobre a chama e a posição da ventoinha para que fique sobre o “bico” do vidrinho.

1. O que vocês observam? Justifique o que aconteceu.

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2. Por que fica mais fácil encher o vidrinho depois de aquecê-lo?

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3. Porque o vapor sai com força do vidro?

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4. A partir da lista abaixo de formas de energia, escolham as que são pertinentes e faça no espaço em branco uma sequência das energias que aparecem neste experimento:

Energia luminosa

Energia cinética

Energia gravitacional

Energia térmica

Energia química

5. Faça uma síntese do que aprenderam nesse experimento quanto a relação entre calor e energia mecânica.

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