**The Thrill of Flight – Topic 4**

***Helicopters***

Lesson 1

1. What are the rotor blades shaped like? Draw a diagram.

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1. Why is the tail rotor so important?

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1. Why are landing skids mainly used?

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Lesson 2

1. What is special about a helicopter’s movement abilities?

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1. How does a helicopter pilot change the angle of attack to affect flight?

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1. Every action has an equal and opposite reaction. What is the action and reaction of a helicopter?

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1. What does the pilot and helicopter do to move forward?

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1. What do the rudder pedals do?

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Lesson 3

1. What are some tasks that a helicopter can accomplish?

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1. How do police use the HAWC 1?

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Topic 4 - Review Questions

The tail rotor produces \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ just like an airplanes propeller.

Instead of producing \_\_\_\_\_\_\_\_\_\_\_ , the tail rotor stops the tail from swinging around.

Helicopters are sometimes called choppers or egg-beaters because of the chopping sound of their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ as they whip through the air.

The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the force supporting the helicopter in the air.

To \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, or stay still in the air, the rotor disc stays level and this keeps the helicopter steady.

The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is developed in the direction in which the helicopter is tipped.

Flying a helicopter requires great concentration; a pilot uses \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to control the helicopter, and must watch all \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and look out the windshield.