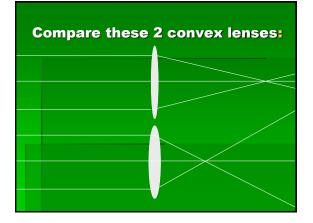
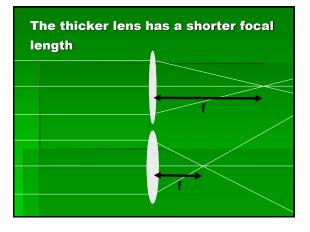
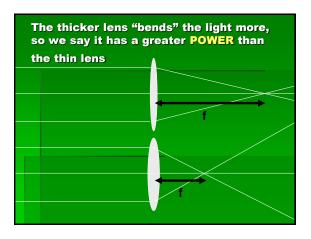
# Power of a Lens

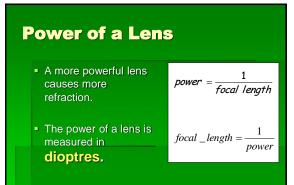
## How does an optician identify different lenses?









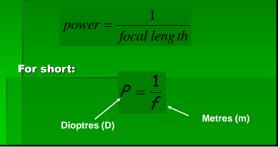


# What does this mean?

- A 2 Dioptre lens focuses at 0.5 metres (1/2m)
- A 3 Dioptre lens focuses at 0.33 metres (1/3m)
- A 5 Dioptre lens focuses at 0.2 metres (1/5m)
- A 10 Dioptre lens focuses at 0.1 metres (1/10m)
- A 2 Dioptre lens focuses at 0.5 metres (1/2m)

#### **POWER OF A LENS**

To calculate a lens' power, use this equation:



## **Power of Lenses**

- Converging lenses have a positive focal length and a positive power.
- Diverging lenses have a negative focal length and a negative power.

<u>Summary</u>				
	Type of lens	What it does	Focal length	Power
	Convex	CONVERGES light ( <i>brings the</i> rays together)	Positive	Positive
	Concave	DIVERGES light (spreads the rays)	Negative	Negative