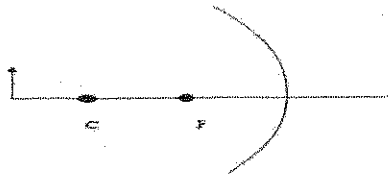
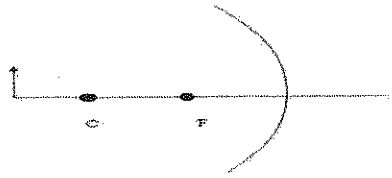
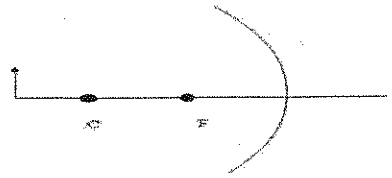
Name:_____

Curved Mirrors

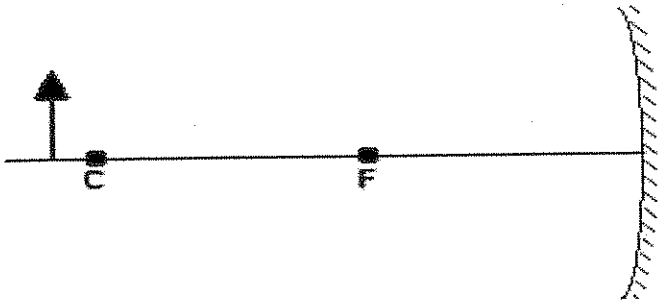
Optical Ray Diagram Rules

Rules	Description	Diagram
①	When an incident ray travels parallel to the principal axis, it is reflected through the focus (*F*).	
②	When an incident ray passes through the centre of curvature (C), it is reflected back onto itself.	
③	When an incident ray passes through the focus (*F*), the reflected ray is parallel to the principal axis.	

Mirror Ray Diagram

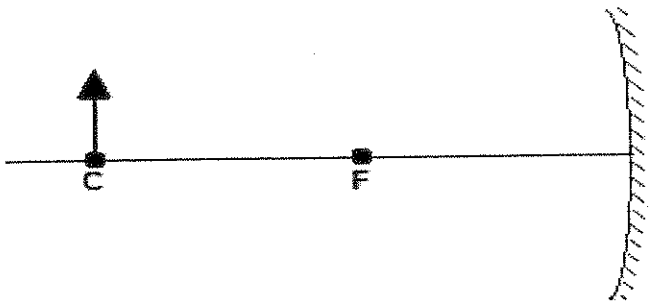
Spherical Concave Mirror

Case 1: Object is far beyond C



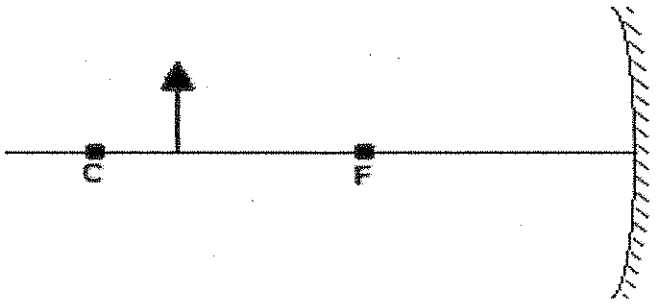
	Object Location
Size	
Attitude	
Location	
Type	

Case 2: Object is at C



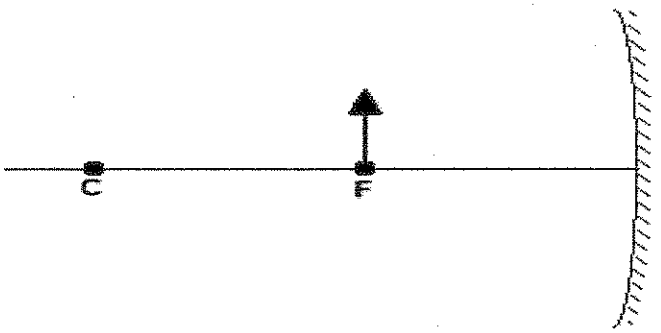
	Object Location
Size	
Attitude	
Location	
Type	

Case 3: Object is between C and F



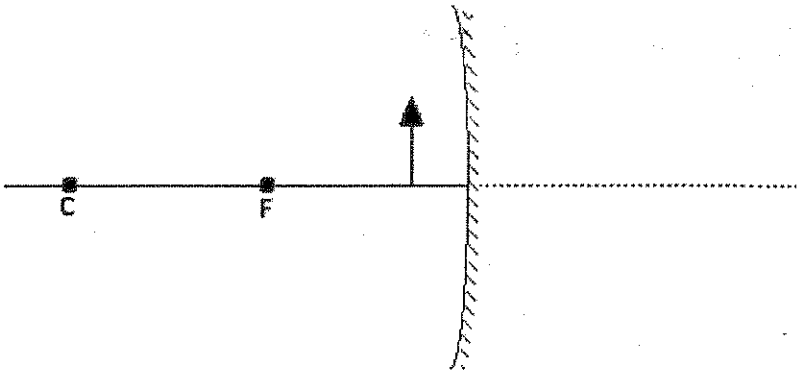
	Object Location
Size	
Attitude	
Location	
Type	

Case 4: Object at F



	Object Location
Size	
Attitude	
Location	
Type	

Case 5: Object between F and Mirror



	Object Location
Size	
Attitude	
Location	
Type	

Spherical Convex Mirror

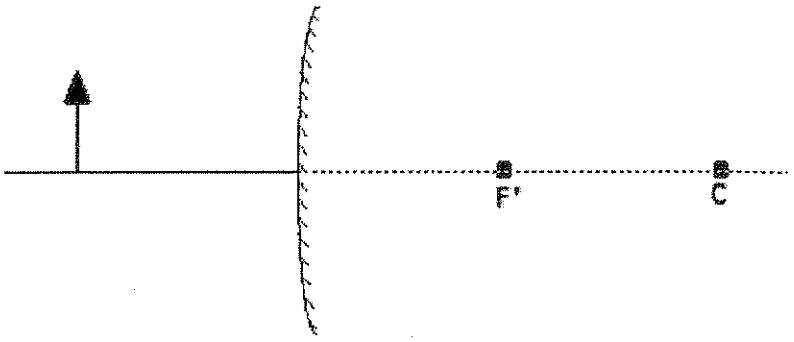
Optical Ray Diagram Rules for Convex Mirror

①Any ray traveling parallel to the principal axis is reflected such that it appears to pass through the virtual focus (F).

②Any ray appearing to travel through the virtual focus (F) is reflected parallel to the principal axis.

③Any ray appearing to travel through the centre of curvature © is reflected back along itself

Case 1: Anywhere



	Object Location
Size	
Attitude	
Location	
Type	